

Class of '68: 900?

192 men and 10 women accept admission so far

At least 192 men and 10 women have accepted offers to become members of the class of 1968. Ten men and one woman have declined the offer.

The remainder of the 1,436 men and 70 women offered admissions have not yet replied. According to Mr. Richard Willard, Admissions Office Statistical Analyst, it is hoped that 858 men and 42 women will eventually decide to become freshmen next year. Those admitted must inform MIT of their decision to attend by May 1.

175 people have been placed on the waiting list. "We hope," Mr. Willard said, "to let them know

finally by May 1." May 1 is the Candidates Standard Reply Date which many colleges have established as their date by which candidates must reply to offers of admissions.

An error of one to two per cent in guessing how many of those admitted decide to attend is not unusual. If an excessive number of people accept, finding sufficient housing becomes a problem.

Land grant colleges and state universities have increased their capacity an average of 16% over the past year. The size of the freshman class at MIT will remain constant except for a small increase in the number of coeds by five or six.

Kenyan Ambassador to UN examines African freedom

By George Russell

His Excellency Burudi Nabwera, Kenyan Ambassador to the United Nations and the United States, spoke at an African Freedom Day celebration in Kresge Auditorium last Friday. He was sponsored by the Pan-African Student's Organization in the Americas.

The traditional purpose of Freedom Day speeches is to discuss the extent to which colonialism has been displaced in Africa and to make plans for the coming year. Ambassador Nabwera expressed the belief that colonialism was "on the way out" in Africa.

"We must turn our minds to another aspect of freedom. We must turn the light on ourselves," he emphasized.

Nominal freedom

The ambassador proposed to discuss three factors which have made freedom only nominal in many parts of Africa.

First, leaders have become the prisoners of the labels "moderate" and "extremist" which are used extensively by the foreign

mass media. Once the label "moderate" has been bestowed upon a leader, he fears that it will be removed. He stops thinking independently, and acts to preserve the image which foreigners have established for him.

Much of the blame for this situation falls on the western press. It sees all leaders as either moderate and pro-Western, or extremist and pro-Eastern. "It has never occurred to these people that we may be just pro-African," Nabwera added.

Foreign advisers

"We do need to have foreign advisers . . . but we must also establish our own independent way of life," he stressed.

Africans became accustomed to letting others run their affairs. When anything went wrong, they blamed the foreign colonialists. "Now the remnants of this scapegoatism are preventing us from recognizing our own shortcomings and failures."

The African diplomat cited the vast control which foreigners exercise over the economic life of the continent. As an example, he explained that in East Africa 90 per cent of all commerce is in the hands of Asians, while Europeans control all banking.

Destroy the Stronghold

"We shall have to destroy the stronghold. We shall have to take steps which will not please the Asians and Europeans and the

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Bishop new Dean of Humanities

Dr. Robert L. Bishop will serve as Acting Dean of the School of Humanities and Social Science, replacing Dean John E. Burchard, who will retire in June.

Professor Bishop is currently head of the Department of Economics and Social Science. He will maintain this position while serving as Acting Dean. Dr. Bishop has accepted the appointment with the understanding that a permanent Dean will be appointed next year.

Bishop on policy

Dr. Bishop hopes to return to his work in economics as soon as possible and said: "I'm inclined to think that there will be little change in policy (in the School of Humanities and Social Science)."

Professor Bishop came to MIT in 1942. He was appointed Assistant Professor of Economics in 1946, Associate Professor in 1950, and Professor in 1957. He has been head of the Department of Economics and Social Science since 1958.

Most recently, Professor Bishop's work has been in the field of game theory as applied to problems of economic bargaining

oligopoly. He is co-editor of "Readings in Economics" and has published widely on economic theory in professional journals.

After graduating summa cum laude from Harvard University in 1937, Dr. Bishop was awarded a Sheldon Traveling Fellowship for a year in Europe. Following further study and service as an instructor and tutor in economics at Harvard he received the A.M. and Ph.D. degrees there in 1942 and 1949.

Ford Fellow

Since joining the faculty at MIT, Dr. Bishop has been Visiting Professor at both Harvard and Brandeis Universities. During 1961-62, he was a Ford Foundation Faculty Research Fellow.

Dean Burchard became first Dean of the School of Humanities and Social Science on its establishment as the Institute's fourth school in 1950. Previously, he had served as Dean of the Division of Humanities.

During Dean Burchard's administration Course XXI was established in 1955, and now has nearly a hundred undergraduate majors. The Center for International Studies was founded in



Dean Robert L. Bishop

1951, and new doctoral programs were founded in political science (1958), in psychology (1960), in linguistics (1961), and in philosophy (1963), in addition to the original doctorate in economics.

From 1940 to 1945, Dean Burchard was on leave of absence from MIT and served as chairman of some of the 18 divisions of the National Defence Research Committee and later as Deputy Chief of the Office of Field Service. He was awarded the Medal for Merit, the nation's highest civilian award, in 1948.

Burchard's service

Dean Burchard has been a trustee of Mount Holyoke College and the Boston Museum of Fine Arts. He has also served abroad as an advisor to UNESCO and to the governments of Australia, France and Norway.

He was formerly a member-at-large of the American Council of Learned Societies and is a Fellow of the American Academy of Arts and Sciences which he served as Vice President in 1953 and as President from 1954 to 1955.

Dropping a course? May 8 last chance

May 8 is the last day upon which a student may cancel a subject by submitting a Registration correction card approved by his Faculty Counselor.

After that day a petition to the Committee on Academic Performance is required.

According to Mr. Bruce Leggett, Executive Officer to the Committee on Academic Performance, "The Committee will allow such late cancellations only in the case of extenuating circumstances. The fact that a student is failing is not considered a valid reason for a late cancellation."

In general, extenuating circumstances are only those which could not have been foreseen before May 8, according to Mr. Leggett.

Jacoby will lecture on game probability

Mr. Oswald Jacoby, well known authority on bridge and poker, will deliver two lectures this week in 2-390.

The first, entitled "Basic Probability," will be presented today at 4:30 pm; the other, "Inverse Probability," will be given Friday at the same time and place.

Registration material available for Summer Session next Monday

Registration material for the 1964 summer session will be available Monday, April 27, at the Information Office.

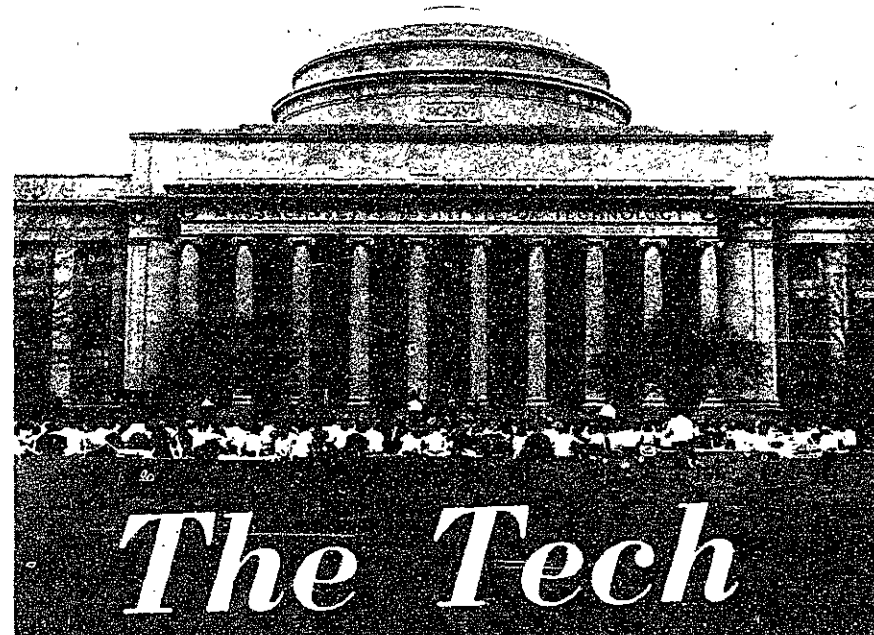
The registration forms must be filled in and returned to the Registrar's Office, Room 7-142, by Wednesday, May 20.

Walcott, Bemis, and Goodale will be open for undergraduate residence during the 1964 summer

session in accordance with the following schedule:

June 20 Rooms available
June 22 Session begins
Aug. 28 Classes end
Aug. 31-Sept. 3 Exams
Sept. 3 Session ends
Sept. 4 Vacate rooms

Applications for undergraduate summer residence may be obtained at the East Campus Office, Munroe Hall, and must be filed there by Thursday, May 7.



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Core development

Ruling for Forrester

By Mark Rockman

Legal friction among MIT, the Radio Corporation of America, and International Business Machines Corporation concerning Professor Jay W. Forrester's in-

vention of the digital core memory was ended recently in a \$13 million award to MIT in the United States Court of New York.

The history of the memory system dates back to 1946, when the MIT Digital Computer Laboratory was established under the direction of Professor Forrester.

The Laboratory developed the Whirlwind computer, one of the first high-speed electronic digital computers. It was intended for applications to science, engineering, and experiments for the processing of air defense information.

Memory changes

By 1949 it was apparent that the internal memory, in which commands for the complex computer operations are stored, was hindering the computer's functioning. Relays and electronic tubes had been found too slow or too bulky and lacked the necessary reliability to satisfy the rigorous requirements of the ap-

(Please turn to Page 17)

Olde English decor

250 couples attend thirtieth Assembly Ball

Two hundred and fifty couples attended the thirtieth Assembly Ball at Walker Memorial last Friday evening.

The ball began at 9 p.m. with a champagne reception for honor guests in the Walker 201 Lounge. President and Mrs. Stratton, and Provost and Mrs. Townes headed the receiving lines of honor guests in the Trophy Room.

The event was touted by Boston newspaper columnists as "the height of the social season at MIT."

The evening's entertainment included three selections by the Dovers of Zeta Beta Tau and classical guitar by Don Dilworth. After the grand promenade the midnight buffet in 50-340 was reoratively set in a Camelot courtyard, where Arthur Best '64 and Roberto Lewis '64 of the MIT fencing team provided a surprise duel.

Music by Harry Marshard's orchestra began at ten, and dancing continued until three.

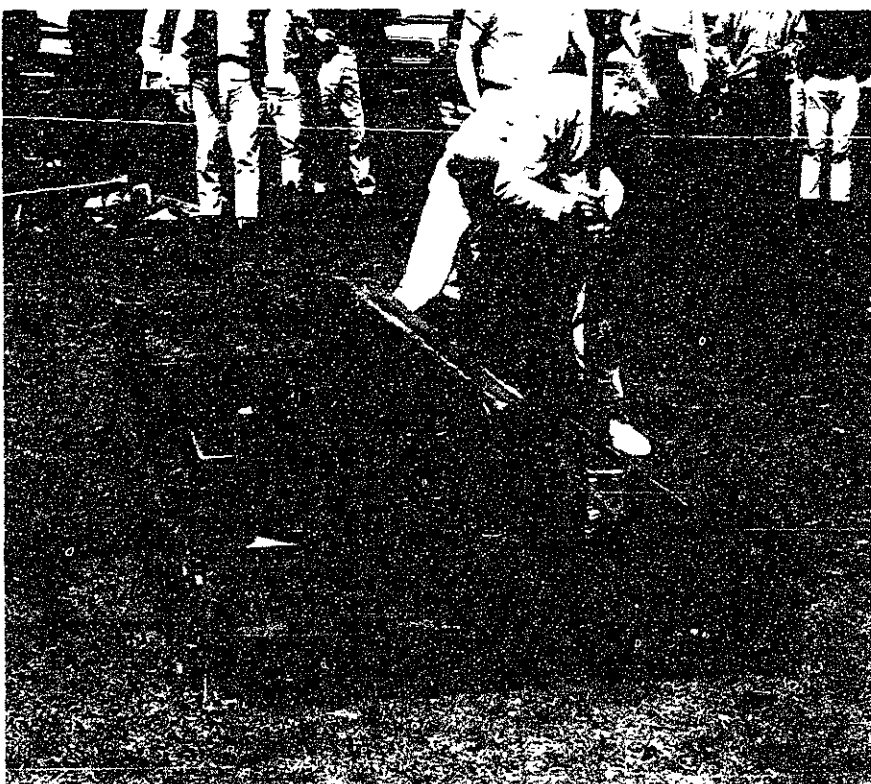
Robert E. Thurber was Chairman of the committee organizing the Assemblies Ball this year. The committee was advised by William H. Carlisle Jr. and Robert J. Radocchia.



Photo by John Torode

President Julius Adams Stratton offers his wife some liquid refreshment at the thirtieth annual Francis Amasa Walker Assemblies Ball. Student is Burns Woodward '67.

APO group sets record for upright piano reduction

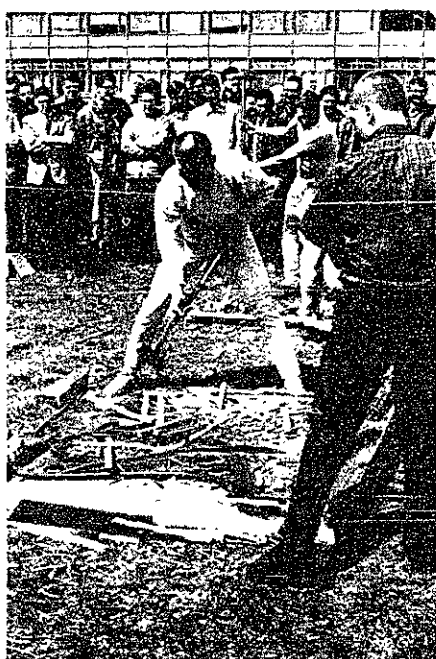


Photos by Bill Bloomquist

Six members of Alpha Phi Omega, national service fraternity, gave an exhibition of muscular skill at noon last Thursday. It took them 17 minutes 20 seconds to demolish the piano lying between Building 8 and the Green Building.

The group challenged all campus groups to attempt to break the world's record, slightly under four and a half minutes.

The rules specify that a specific fragment of the former musical instrument pass through a seven-inch hole.



MIT Outing Club

Spring Circus trips planned

The MIT Outing Club will sponsor another Spring Circus of trips for members and non-members this weekend.

Those interested in a trip may sign their name on the bulletin board in Building 2.

On Saturday there will be a trip to Quincy Quarry for beginning rockclimbing, led by Shelby Hilderbrand '66. A square dance will follow at 8 p.m. in the Armory. Admission will be \$.75.

On Sunday there will be a spring hike up Mt. Monadnock in New Hampshire, led by Hildebrand; a rock climb at Quincy Quarry led by Earl Hamilton '65; a canoe trip on the Charles to Natick Dam, led by Bill Alves '65; and a cycling trip with Wellesley, led by Roland Graham.

There will be a meeting in Room 50-306 featuring slides of outings Monday at 5 p.m. All are invited.

Trip leaders may be contacted for further information.

Project Arcturus

ME project created alien planet

By Lydia Castle

One of the most publicized of the design projects carried on by the Mechanical Engineering Department was "Project Arcturus," a problem in design devised by former Professor of Mechanical Engineering John E. Arnold.

The project involved a text of "correspondence" and "reports" of the Massachusetts Intergalactic Traders, Inc., and the Terran Exporting Counsel Headquarters. The material related in the "newly-discovered" Arcturus IV, which had been first surveyed in the year 2951. This project was taught about 10 years ago.

The information contained in the text had been worked out by Professor Arnold, with the cooperation of the Science Fiction Society. When the details had been worked out, the material was presented to students of design. The assignment: design materials which could be traded with the residents of Arcturus IV for profit by MIT, Inc.

MIT, Inc., the report says, is engaged in the manufacture and distribution of products for extra-solar consumption. This company, and all others like it, operate under the rules and regulations of the Terran Exporting Counsel

Headquarters, a government agency.

MIT writes TECH

A confidential memo from MIT to TECH asks for further information about the newly-discovered Arcturus IV for use in designing articles to export to that new market. The remainder of the file contains letters, memoranda and research reports, all on 2951 letterheads, telling how exploring parties visit the Methanians at their great city, Snafu (population, 15,500,000), learn their language, study their life and do market research on their needs.

Arcturus IV is the fourth planet from the sun a Bootis (Arcturus), thirty-three light years from our solar system. As described in the files of the Massachusetts Intergalactic Traders, Inc., it is a large planet, 12 million meters in diameter. The acceleration of gravity at the surface is eleven thousand centimeters per second per second.

Its distance from a Bootis is 1,800,000,000 miles, and its sidereal period is 49.4 Earth-years. The length of day is one hundred fifty-nine Earth-hours, divided into Gahlos, Bahlos and Nahlos. The atmosphere is largely methane (indeed, the name of the local races translates to Methanian,) and the mean temperatures range from -50°C in the summer to -110°C in the winter. Ammonia is the Arcturian substitute for water.

Methanians described

A good description of the Methanians themselves is found in a report from J. S. Wick, Director of the Physiological and Psychological Bureau of TECH. "The Methanians weigh very little compared to us. One of the largest

we met was weighed on a Terran spring scale at one hundred eighty-seven pounds. (They are relatively strong, however, being able to lift twice their own weight.)

"Their bones are hollow and apparently filled with hydrogen and helium. There is no question but that these people have evolved from a race of birds; their appearance seems to indicate it, their history seems to prove it.

"Their long arms and clawlike hands—three-fingered—are vestiges of once great wings. The only anomaly is their single-toed feet, like those of a horse. This adaptation to ground living evolved very rapidly once the power of flight was lost." The females are about four feet tall, the males a foot taller.

Their faces are somewhat like

(Please turn to page 15)

McDowell aids students, groups in social service

Richard McDowell '60 has been appointed to assist students and student organizations for the Office of the Dean of Student Affairs in selecting social service and community action projects.

He assumed responsibility for this work last Wednesday.

McDowell was Assistant to the Dean of Student Affairs from 1960 to 1962, and has since been Assistant to the Director of Admissions.

An industrial management major or as an undergraduate, he is now a special student in political science.

Fijis mark anniversary; Celebrate 75th birthday

This weekend the MIT Iota Mu Chapter of Phi Gamma Delta will celebrate the 75th anniversary of its founding. The Fijis were the third fraternity established at old Boston Tech when the charter was granted in 1889.

The Fijis were responsible for the founding in 1913 of the present junior honorary society, Beaver Key.

More than 100 alumni from all over the country are expected to come for the celebrations. Two life members of the MIT Corporation, Marshall B. Dalton '15 and Gilbert M. Roddy '31, will be among the graduates attending.

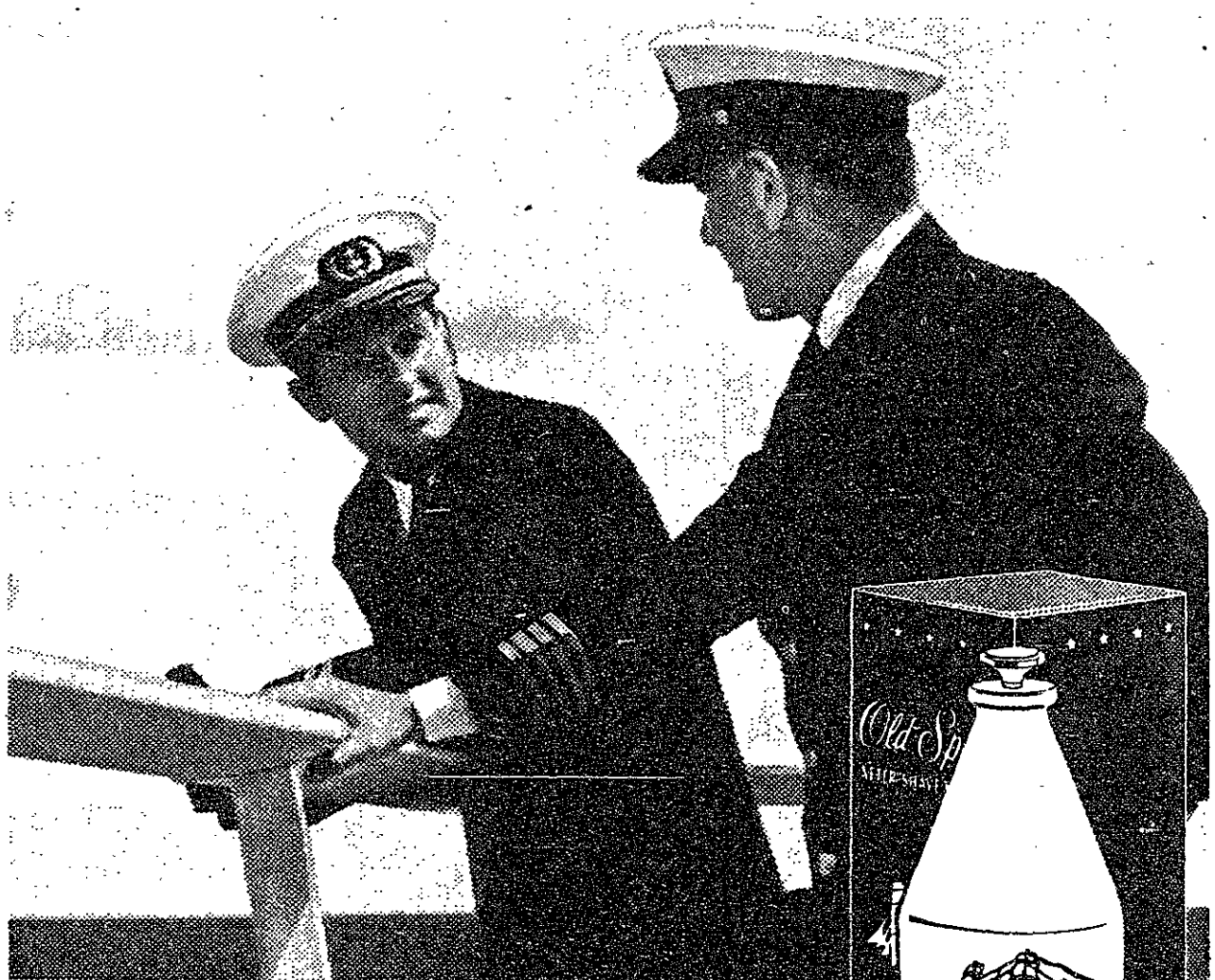
The celebrations will be held in the chapter house at 28 The Fenway, home of the Fijis since 1923.

'66 class ring fittings this week

Hank Perritt, President of the Class of 1966, announced last week that fittings for class rings will be today and tomorrow in the lobby of Building 10.

Representatives will be at MIT from 9:30 to 3:45 p.m. on each day. After talking with representatives of several jewelers, Perritt, Rich Sayre, Vice-President of the Class, and Ken Browning, Secretary-Treasurer, decided to award this year's ring contract to L. G. Balfour Company.

Balfour also was the official jeweler for the Class of 1965.

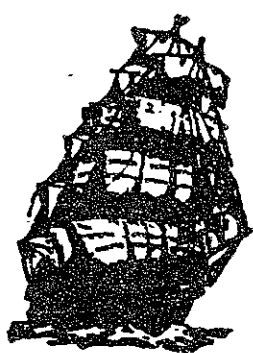


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Train trip climaxes Spring Weekend



800 couples attend

Spring Weekend successful

A successful Spring Weekend was enjoyed by nearly 1800 people last weekend, reported Ron Gilman, the Spring Weekend Committee Chairman.

Maynard Ferguson provided music for 800 couples at the semi-formal dance Friday night, and almost the same number rode by train to Hampton Beach for entertainment planned for the next evening.

Perfect weather Saturday led to "amazingly" accurate fulfillment of plans, according to Gilman. Between 1400 and 1500 people listened to the Brandywine Singers

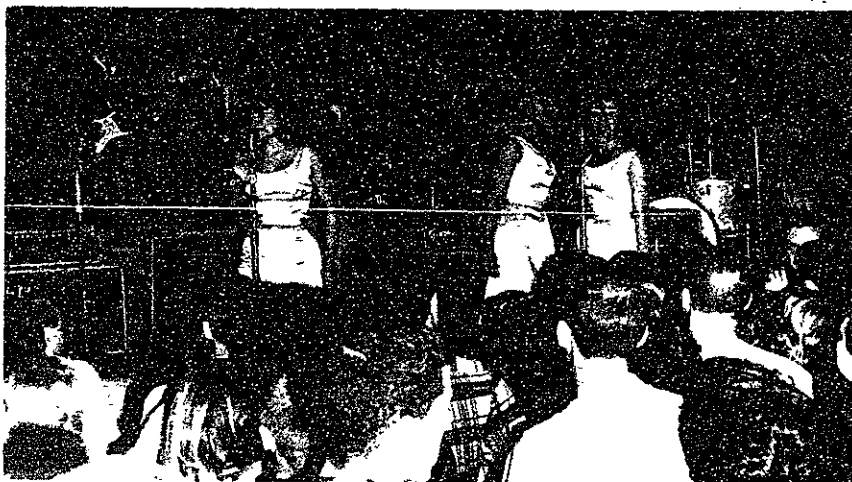
in the Great Court during the afternoon, and the evening events went off exactly on schedule.

The Friday evening event involved some complications, however. Louis Armstrong had originally contracted to appear; however, he broke contract for a promised appearance next year at a reduced price. The Platters then had been scheduled, but they also canceled out.

During the last week, the Committee tried to arrange for Brook Benton. However, the Committee later felt that he was "unreliable," and no entertainment beside Maynard Ferguson appeared that evening.

Nonetheless, Ron Gilman felt that the weekend was "very successful."

He expects the event to show a profit although accounting won't be completed for two or three weeks.



Left: Date lounges languorously on escort's lap on 55-mile long train trip. Destination: Hampton Beach Casino, New Hampshire.

Above: These three lovely apparitions are "The Angels," entertaining the Spring Weekend crowd at the Hampton Beach Casino.

To star 3 Techmen

USIA shoots film here on role of humanities

The United States Information Agency is now shooting a film at MIT on the role of the humanities as a part of the program of MIT students.

Directed and produced by Nicholas Webster, a freelance contractor, the film will star three MIT students who will be chosen for their interest in the humanities.

The USIA film will be translated into 28 languages and shown throughout the world. It will be one of the most important of this year's output of USIA films, Webster says.

Webster directed a Bell and Howell "Closeup" called "Walk in My Shoes" which was nominated for an Emmy as the best television show of last year. He has also served as director of the CBS film, "The Thinking Machine," much of which was produced at MIT.

Webster said he would appreciate whatever cooperation MIT students can give him in the production of the film.

Killian, Harrington, McCormack to speak on peaceful uses of space

Three MIT officials will speak at the Fourth National Conference on the Peaceful Uses of Space April 29-30, and May 1, 1964, at John Hancock Hall in Boston.

James R. Killian Jr., Chairman of the Corporation, will comment on "What the Space Program Means to the Nation" Wednesday, April 29, at 9:00 a.m.

Professor John Harrington, Director, Center for Space Research, will chair a discussion of "Machines in Space" Thursday morning

Postal official orders immediate crackdown on chain letter schemes

An upsurge of college campus chain letter schemes has prompted Chief Postal Inspector Henry B. Montague to order a nationwide crackdown on violators of the postal lottery and fraud laws.

According to Montague, many of the chain letters involve United States Savings Bonds, Postal Money Orders, and cash. He cited reports of chain letter schemes at colleges in Mississippi, Wisconsin, Indiana, and in the New England area, among others.

Montague has warned that even though some of the chain letters are not mailed, the schemes still may be violations of the postal lottery and fraud laws, since the proceeds from the chain letters are usually mailed.

The typical chain letter provides for a monetary item to be sent to the name on the top of a list enclosed with the letter. The first name is then removed and the new participant's name is added to the bottom of the list. Copies of the letter are then sent to two more people.

Montague noted an increase in chain letter activity in college towns across the country has prompted the crackdown order. The participants, he said, usually appear to be college students.

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'Human Visual System' is topic of IEEE speech to be given by Prof. Eden this Tuesday at 4 pm

"The Human Visual System" will be the title of the speech to be given by Professor Murray Eden, Department of Electrical Engineering this coming Tuesday at 4 p.m. in Room 3-270.

Prof. Eden's talk, sponsored by the MIT Student Branch of the Institute of Electrical and Electronics Engineers, will be a discussion of the human visual system as a picture processor.

"The Center for Space Research," a report on the development and goals of the proposed center at MIT, is the planned topic for the meeting scheduled for Tuesday, May 5.

Prof. John V. Harrington, Director of the Center for Space Research,

will be the speaker. The meeting will begin at 4 p.m. in Room 26-100.

Prof. Harold E. Edgerton is scheduled to speak at the IEEE meeting Tuesday, May 12. The topic has not yet been announced.

All lectures presented by the Student Branch of the IEEE are open to the public, free of charge.

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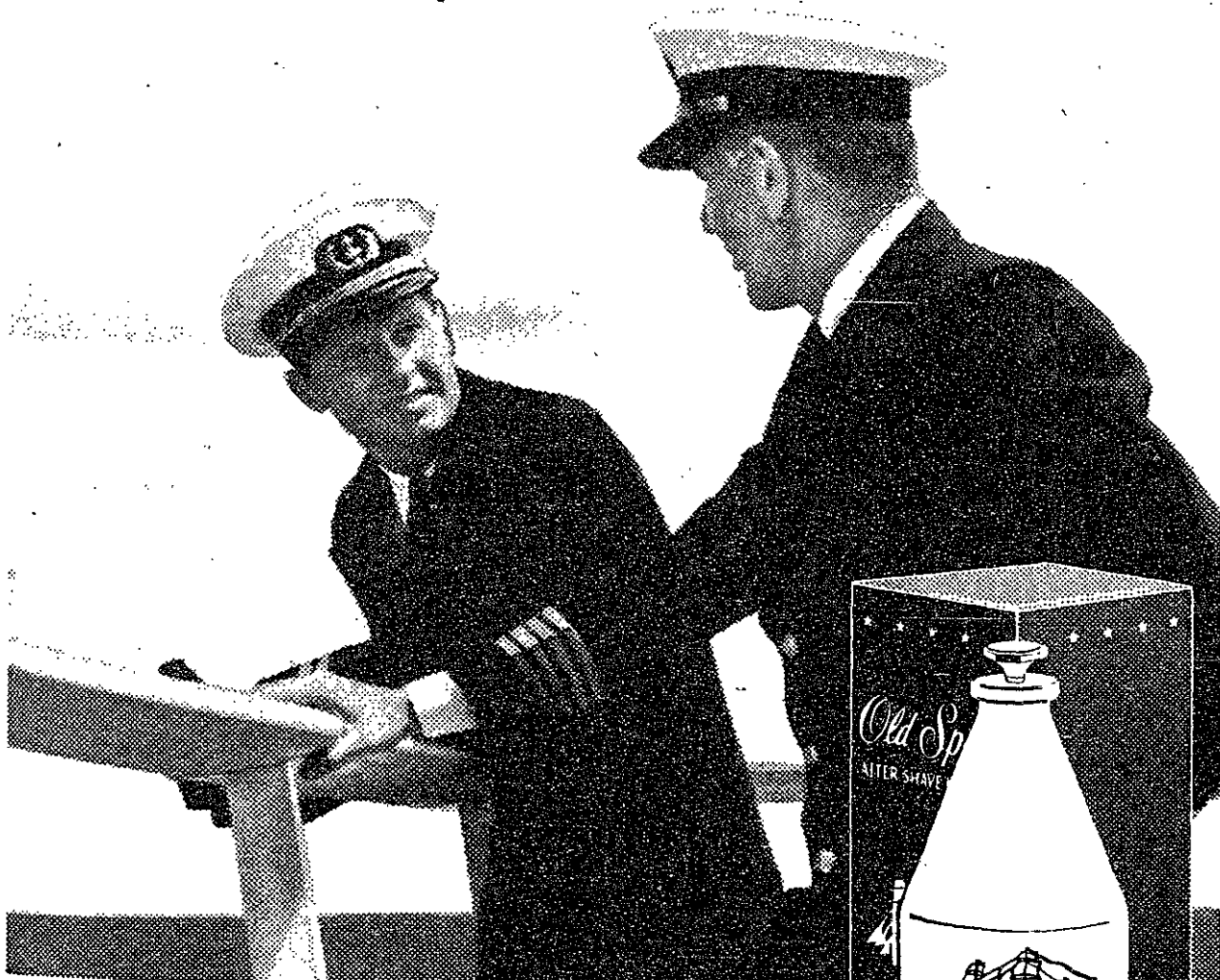
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Research and the Institute

Last week we noted some of the problems of the nation's universities in connection with Federal support of scientific research. Solutions to these problems will not be easy and will demand vigorous action. Some possible courses of action, as we see them, are given below.

Teaching Awards

At the present time, MIT has several awards for excellence in teaching. These include the Billard Award (first given to Prof. Harold E. Edgerton '27), the recent Baker Foundation Award (first received by Prof. Alan J. Lazarus '53), and the Goodwin Medal (first awarded to Prof. Kenneth R. Wadleigh '43, Dean of Student Affairs). However, these awards—prestigious and vital as they are—are not now sufficient in number.

There are built-in incentives for excellent research in the universities. A significant research finding will enhance a reputation and bring promotions and industry consultancies. Excellent teaching, however, is often rewarded only by the gratitude of a relatively few students—and sometimes, as the recent case of Woodrow W. Sayre at Tufts University demonstrates, by the loss of a post when tenure-producing research is neglected.

Increasing the number of teaching awards would augment the incentives for excellent teaching. Foundations and individuals could probably be persuaded to endow funds for such awards, if the awards bore the donor's name, as in the case of endowed professorships.

Adequate Financing

A perceptive article in the April 1964 issue of *Industrial Research* points out that the academic wallet is often pinched by inadequate compensation for the overhead costs of government-sponsored research.

The article, written by Raymond J. Woodrow '36, director of research administration at Princeton University, notes that Congress has set an unreasonably low limit on the government's share of overhead costs connected with research grants—as opposed to contracts. This limit is 20 per cent of direct costs in 1963-64.

This 20 per cent limit on the sponsor's share of the burden of indirect costs in grant-supported research means, in effect, that MIT and other universities accepting Federal grants must pick up the tab on a substantial fraction of the research costs. Federal research con-

tracts, on the other hand, are more reasonable in paying indirect costs than are grants. In general, contracts are preferable to grants from the standpoint of reimbursements for overhead. There are other forms of cost-sharing, though, which are also inherent in contracts.

Cost-sharing in research contracts and grants can hardly be justified. It is argued that universities will manage their government-sponsored research more efficiently if they share the costs. This argument is indefensible in light of the universities' immense contributions in the past to research in the national interest. MIT, in particular, has an unparalleled record for competence in handling government research and for service to the nation. It makes little sense for the government to expect MIT and other universities to draw money from non-research activities such as instruction in order to perform government research.

Full finding of the costs of research programs is essential, and Congress should remove the arbitrary limits on reimbursements for overhead costs. MIT must insist, discreetly but firmly, on adequate compensation for the services it performs for the nation in research—lest its equally important function of education suffer.

Advisory Panels

Some Federal agencies do not use advisory panels for the merit rating of the increasing number of research proposals. MIT should, it appears, support the adoption of such panels for the agencies not now having them.

The National Academy of Sciences recently concluded that adopting study panels would improve the quality of research programs selected for grant or contract support. Aside from this obvious benefit, MIT would benefit from the formation of the new panels in that their members, mostly drawn from universities, could represent the universities' viewpoint on adequate funding of research programs.

Guarded Optimism

As we noted earlier, Federal support of scientific research is here to stay. The commitment of public funds to basic research has helped bring American science and technology to a position of world leadership.

The problems connected with government-sponsored research can be solved, and the increasing attention which these problems are receiving will be useful in reaching solutions. The most reasonable attitude towards government aid to scientific research seems to be guarded optimism.

Welcome to parents

A welcome is extended to the parents of MIT students who are visiting the campus during this weekend. The Parents' Weekend Committee has arranged a lively program for you, and we hope you will enjoy it.

MIT is a busy and changing institution, and you will see evidence of its rapid physical growth in the many construction projects rising around the campus. In later visits here, you will find MIT much different in appearance—and the new construction has already given it a new look which you will notice if you have already visited MIT.

MIT is more than buildings, though, and you will also have an opportunity to meet some of the faculty who have helped build MIT's reputation as a world center of science and technology. The current issue of *The New Yorker* describes some of the pioneering work which MIT's surprising faculty is now doing.

The students here can also be quite surprising—and we hope you will not be too surprised at seeing your son or daughter's housekeeping habits or Coop bill!

To give you more information about MIT, a special four-page section has been added to this week's issue of *The Tech*. Much credit for this section goes to the Public Relations Committee and the Parents' Weekend Committee.

Footnotes

By Bill Judnick

Many people reading our headline story last week ("MIT receives \$13 million in patent litigation") were left wondering just what Professor Forrester's share, if any, would amount to. We did not, and still do not, know for sure; but . . .

The Crystal Ball

42. There is an Institute rule, I'm told that places the normal amount at 12 percent. I'll guess he'll get at least 50 percent MORE than that figure (i.e., over 18 percent of the \$13 million) when summed over the years.

In answer to two conflicting rumors I've heard:

43. Mr. Masterton, Superintendent of the Alumni House, will retire after one more academic year. (He'll be missed.)

44. The ROTC dance, held experimentally this semester, will become a regular semi-annual money-raising event next year.

45. I wouldn't be a bit surprised if TSE came out with a package trip deal for students interested in seeing the World's Fair next semester. Nothing definite on this yet.

Speaking of TSE

New information has proved a few points in Footnote 40 (no more non-scheduled airlines for TSE) incorrect. I'm glad to set the record straight.

The change-over from charter to group flights is effective this summer, but the reason for the change casts NO aspersions on the safety statistics for the non-scheduled flights of Flying Tiger or Caledonia.

In fact, the TSE board was satisfied with both their records after careful investigation. They were advised by the Institute, however, that it might be easier to defend their choices of airline (if an accident did take place) if their policy were that of group flights.

The subsequent decision of the board, including three students and ten administration officials, will result in an increase of about \$80 in costs for trans-Atlantic flights for at least the duration of this summer.

In print

Two items received small play in the national magazines recently. Of especial interest to MIT students, they are:

The newest application of the laser, according to *Newsweek* (March 16), is the laser rifle now being experimentally tested. Remember those science-fiction stories?

The space journal *'Astronautics'* recently carried an article making a strong implication: "It is difficult to avoid the conclusion that the Air Force is quietly placing additional dipoles in orbit." Remember what the astronomers had to say about Lincoln Lab's Project West Ford?

Keeping track

Here's how the predictions did this week:

A win and a loss on A-Ball. Right was the decor specified in Footnote 34; wrong was the guest list in Footnote 26.

The Spring Weekend Queen had an "s" in her last name, but no "a", so Footnote 31 lost.

Campus Topics

Student Center Comm. plans many aspects of new building

By Dick Schmalensee

As chairman of the Student Center Committee of Incomm, I head a group which has existed since 1952. When, on November 5, 1962, the Center's architect, Professor Eduardo Catalano, presented his plans to the community, behind his drawings lay a decade of thought and research. When financing was secured through a government loan, and contracts for construction were signed, the Student Center Committee began working more on immediate "nuts and bolts" problems. The Center will have about 150,000 square feet of floor space, each inch of which must be planned firmly and in detail.

(Please turn to page 5)



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Peanuts appears daily and Sunday in the Boston Herald.

Athletic Association officers



Bill Brody

President of the MITAA is Bill Brody '65, a DU from Stockton, California, who is studying electrical engineering. Bill is co-captain of the varsity swimming team and was freshman team captain in 1961-62. He also plays water polo. Bill and the other members of the AA Executive Committee are presently engaged in redefining the role of students in the AA.



Fred Souk

Vice-president of the MITAA for intramurals is Fred Souk, '65, an SAE who presently calls Hamilton, Windcliff Parish, Bermuda, his home. He is responsible for the efficient functioning of the intramural sports program, and serves as president of the Intramural Council. Fred has been active in athletics since he came to MIT, having numeralled on the freshman baseball team and lettered on the varsity lacrosse team as a sophomore.



Ron Mandle

Varsity Vice-president Ron Mandle, '65, from Baltimore, Maryland, has been active in athletics as fresh-

man, assistant varsity, and varsity basketball manager, has lettered in lacrosse, and is presently playing on the first midfield.

His duties as Varsity Vice-president include responsibility for maintaining accurate, up-to-date records of all athletic contests.



Dave Carrier

David Carrier, '65, an SAE, is President of T-Club, the Varsity Lettermen's association. The T-Club is both an honorary and a service organization and as such, provides people to help officiate at track meets, sell refreshments, and, most important, create support and interest in inter-collegiate sports. To accomplish this, the club is responsible for internal sports publicity, including posters, letters, articles in The Tech, etc.



Rich Lucy

The new Secretary of the M.I.T.A.A. is Rich Lucy, a sophomore from Jamestown, North Dakota. Last year he participated in freshman lightweight crew; he is currently the IM Softball Manager, is with varsity sailing, and was the varsity hockey manager.

The A.A. Secretary's duties include keeping minutes of the Athletic Association and Executive Committee meetings and acting as correspondence officer of both groups.

Research discussed

To the Editor:

The April 15, 1964, editorial on government sponsored research in the university sketches several areas of conflict, which include military research versus civilian research and cornering research funds versus maintaining autonomy. It is crucial to define the problems more exactly as they apply to the university and its graduates.

1. Basic research as fallout from defense spending. A large, if not major portion of the funds for basic research in the physical sciences and engineering is obtained from defense or space agencies whose budgets are — in turn — voted by Congress.

Is it only possible to entice basic research funds out of Congress by lumping them with defense needs? If the present answer is yes, then part of the research plant of the university has an unhealthy vested interest in expanded defense spending. Correctives include expanding non-defense agencies, such as the National Science Foundation, as sources of these funds and educating the public and legislatures over a protracted period to the need for sustaining certain basic research on its own merits.

2. Civilian consumer fallout from defense research. While a certain amount of research in early warning systems, rockets and nose cones has been translated into improved civilian communications, aircraft, and ceramic ware, it is not possible to say that this fallout justifies pouring more into the defense tanks so that we can spring a few more civilian leaks. The nation has many unfulfilled needs: housing, transportation and education. A direct assault on these needs — through direct spending in the associated technologies — is required. If you want sturdy, low-income housing, you must experiment with available materials and engineering designs, and not expect the answer to come from missile systems.

3. Education for changing technology. In order for young people to prepare themselves educationally, it is crucial that the government and educators present a consensus or plan concerning fields to be expanded during the coming decades. Only a plan which considers the long-term needs of society can provide the proper orientation for a student in acquiring his training. Thus the proposed cutbacks in defense spending may adversely affect certain engineers and technicians

Letters to The Tech

who were attracted to their well-paying defense-oriented specialties during a temporary robust but now saturated buildup in our defenses.

Sidney Klawansky, Graduate

Orchestra defended

To the Editor:

Among writers of many student newspaper reviews, there is a temptation to pretend to be professional, nay unassailable. The reviewer of the Gilbert and Sullivan Society's program, writing in The Tech of April 15, yielded to just such a temptation, it would seem. In so doing, she abdicated the responsibility of the journalist which demands that expressions of opinion be presented as such, and not as immutable truths.

Under different circumstances, it is conceivable that Miss Dickson would have rendered herself liable to a libel suit in writing that "The fault can rest solely with the conductor." This statement reveals ignorance on her part, and that is not all. It reveals an unwillingness to even attempt (sic) to obtain information about the circumstances of the performance. Had she simply inquired among the members of the orchestra, she could not have written what she did without intentionally lying. We, the undersigned, having played in the Gilbert and Sullivan orchestra, find it necessary to disown certain flagrant misconceptions which appeared in the review.

Bob Goldstein spent two months training chorus and soloists for the April 10 performance. If then the chorus was still unable to execute entrances properly, it must bear much of the blame. It is assuredly not "a credit to the singers that they managed to come in at the right places," for they did not do so. When entrances are anticipated, a conductor is in a difficult position indeed (sic), and

it is to Bob's credit that he managed to have the orchestra adjust accordingly.

The orchestra's performance reflected the fact that its rehearsals were all too few. As the "Footnotes" column in the April 15 issue explained, two weeks of rehearsal were lost when expected cooperation was not forthcoming.

In short, we feel that, contrary to the impression conveyed by Mona Dickson's review, a good deal of the success of the Gilbert and Sullivan production is the result of Bob Goldstein's hard work. It is to be hoped that in the future, Miss Dickson will be as scrupulous in collecting information about any performer she criticizes as she was in the case of Miss Lubin. Otherwise, she renders her views worthlessly slanted, even when written in an authoritative, impersonal style.

Harvey Picker, Graduate

Lewis Morton '66

Daniel S. Diamond '65

Neal E. Tornberg, Graduate

Arnold Kramer '66

George Starkschall '67

Riley Sinder '64

John Dawson '66

Alan Copeland, Graduate

Stephen Grodzinsky '65

William Schick, Graduate

Alan Whitney '66

Editor's note: Messrs. Picker, Morton, & Company should realize that signed reviews and columns are what they aptly call "expression of opinion" and not "immutable truths."

The writers should not unchivalrously attempt to shift "much of the blame" to the singers. The most glaring errors in the orchestra's performance, most observers agree, came during the overtures — when the singers were not even in view.

Committee considers reserve room and offices for student activities

(Continued from Page 1)

Previous committees have wrestled well with the difficult problems involved. I have been blessed with an exceptionally able group with which to continue their work — senior members of the committee are Jim Hester, Steve Lipner and Dick Tsien; and junior members are Bill Byrn, Larry Calof and Tom Jones.

Since the announcement of tentative plans for a fifth floor reserve reading room, the committee has been very actively in-

volved in this area. The room will provide the wide variety of study facilities that are needed; its 495 seats run the gamut in atmosphere from lounge areas to individual cubicles for concentrated study.

As its name suggests, the room will house reserve books — some 13,000 of them, duplicating and extending the reserve facilities for all Institute courses. The room has been designed so that it may be converted into additional space for activities when needed.

Firm allocation of office space among activities is the second of our immediate tasks. We are working primarily with Dean Holden and considering the requests for space that have been made by the various groups. The problems in this area are at once subtle and massive; luckily there is enough space that, while some groups may be disappointed, none will be cramped in their new quarters.

Besides these two immediate areas of concentration, the committee is examining commercial and recreational facilities.

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Wiesner finds change from Washington to academic surroundings is pleasant

By Barbara Cohen

Dr. Jerome B. Wiesner finds the change from the frenetic political world of Washington to the calmer academic atmosphere of Cambridge a pleasant one. The newly appointed Dean of the School of Science served three years as President Kennedy's Special Assistant for Science and Technology, and is presently a member of President Johnson's Science Advisory Committee.

Right now Dean Wiesner is studying the problems of the administration of the School of Science. He is interested in the curriculum development work that has just been completed in the report of the Committee on Curriculum Content Planning, and the plans for the Science Teaching Center. He hopes to do some teaching himself, perhaps in one of the new freshman courses.

Dean Wiesner, who is an Institute Professor, is also planning to return to his research work in the field of communications science. Although he considers being dean a full-time job, he has found time to accept those speaking engagements which seem most likely to be of value from the large number that currently inundate his office.

Early interest in science

Dean Wiesner was born in Detroit and grew up in Dearborn, Michigan. He had an interest in science and engineering, and, also, in the events of the world around him, social issues, literature, music. He built radio transmitters, an automatic scoreboard for his high school gymnasium, and a private telephone line which eventually caused an electric power failure in much of Dearborn).

Dean Wiesner worked his way through the University of Michigan, majoring in mathematics and electrical engineering.

After receiving a BS in 1937, and an MS in 1938, he began his doctoral studies at the University of Michigan. In 1940 he married a math major from Johnstown, Pennsylvania named Laya Wainger, and decided to interrupt his studies to take the post of chief engineer for the Library of Congress in Washington. He did not return to Michigan until 1950 to get his doctorate.

In Washington as part of his job at the Library of Congress, he accompanied Alan Lomax, the folklorist, on a tour of villages in Georgia, Alabama, and North Carolina, soon to be flooded by TVA dams. They interviewed people about to leave their ancestral homes, recording songs and stories of the region.

Came to MIT

In May, 1942, Dr. Wiesner first came to MIT, to work at the Radiation Laboratory, which was developing radar techniques for the war effort. In 1944 he was appointed Group Leader of Project Cadillac, which was aimed at devising an airborne radar warning system to save our warships from the suicide dives of Japanese Kamikaze pilots. For his work on this project, President Truman awarded him the Certificate of Merit.

In 1946, Wiesner became a professor of communications engineering at MIT. Here he joined a series of supper seminars, organized by the late Prof. Norbert Wiener, dealing with the wider implications of cybernetics. These were attended by mathematicians, physicists, electrical engineers, philologists, psychologists, biologists, and neurosurgeons.

RLE Director

Prof. Wiesner became director of the Research Laboratory of Electronics in 1952, and in 1959 was given the additional post of head of the Department of Electrical Engineering. Despite his many outside interests and his involvement in the social and political issues of the day, Dr. Wiesner's work in communications science was sufficient to have him made a member of the Na-

tional Academy of Sciences in 1960, an honor given very few engineers.

Dean Wiesner's outside activities have ranged from winning a place on the Watertown, Mass., Planning Board in 1959 to standing off the McCarthy investigating committee in 1953, when they demanded that he testify against the State Department's choice of broadcasting sites for the Voice of America.

Science advisor

During the 1950's he was a member of President Eisenhower's Science Advisory Committee, and attended numerous conferences on armament and disarmament.

An informal club of distinguished men in the Cambridge area grew up around talks of this issue. In 1960 the then Senator John F. Kennedy began to draw on this brain trust for information for his Presidential Campaign.

Course 16 becomes last department to give open house for freshmen

The Department of Aeronautics and Astronautics will hold the final open house for freshmen this year in the DuPont Room, 33-205, from 4:00 to 5:00 pm tomorrow.

Course 16 offers three programs of study. The engineering program is aimed at students interested in design; it terminates

in the bachelor's degree. The physis in this program flight-vehicle engineering

The second program, ing-science, is aimed at tparing for graduate stu emphasis is placed on hicles and more on exp projects.

A special honors course dents in both programs i by the department. A number of students of ability are invited to pe during their junior year.

The program requires tion of all units and hu requirements for the b degree. Each student in ors program receives t bachelor's and master's simultaneously at the end fifth year.

Asimov and Clement to attend SFS picnic at Blue Hills May 3

The MIT Science Fiction Society will hold its annual picnic at the Blue Hills Sunday, May 3. Dr. Isaac Asimov and Hal Clement and their families will be guests.

Dr. Asimov is the author of popular science and science fiction books. Hal Clement is a noted author of science fiction.

Members will gather in front of Building 7 to leave the Institute at 11 am. The picnic will begin at noon.

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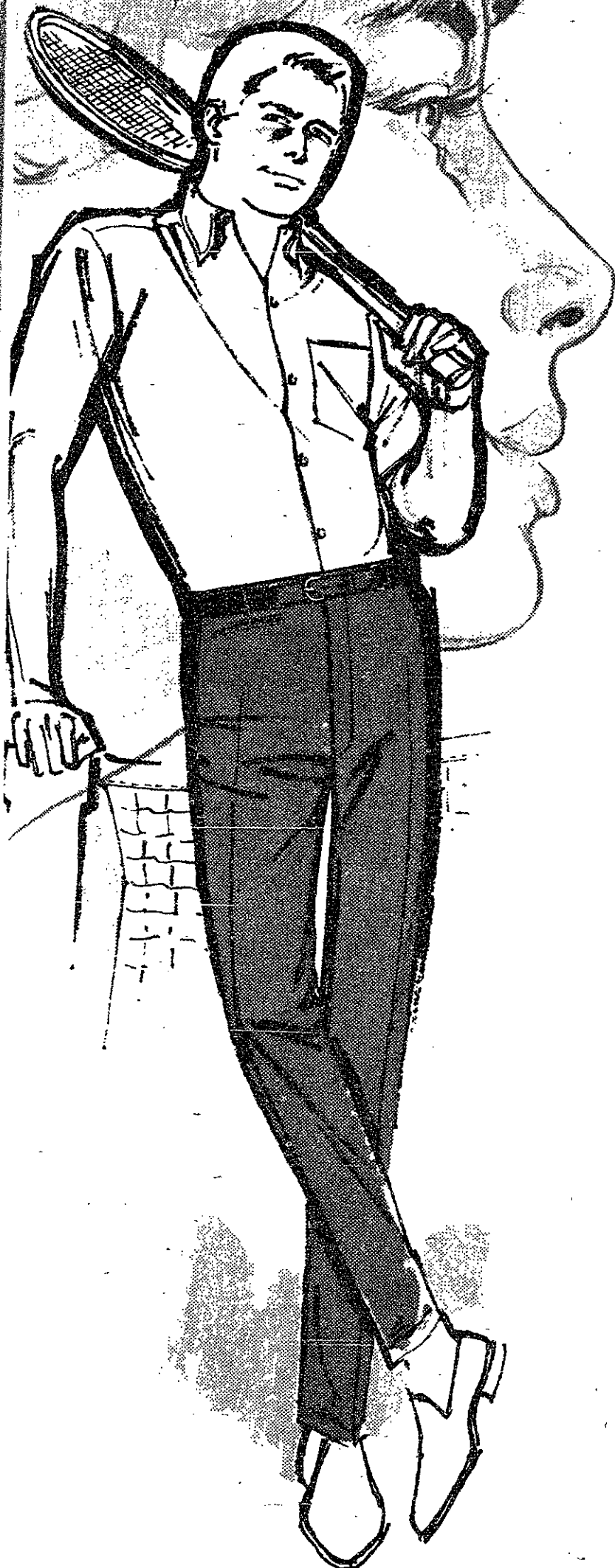
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Book review

Holland views Shakespearean times

By Esther Glotzhofer
 Prof. Norman N. Holland's "The Shakespearean Imagination" was adapted from a television series aimed at an audience ranging from high school students to doctoral candidates, from housewives to lawyers. As a result, the tone is casual and witty, but the content is a bit elementary.

The introductory sketch of Shakespeare's life contains all the conventional information and all the conventional legends, spiced with Holland's views on the anti-Stratfordians, who insist that Shakespeare was too ignorant to be the real author of the plays. Holland maintains that he was "at least, as well educated as the people who say Shakespeare was an unlettered peasant."

Elizabethan theater
 The next conventional part of books on Shakespeare is the reconstruction of the Elizabethan theater. Holland goes beyond physical description to treat the London theater as a form of mass media comparable to motion pictures.

"On a popular day, . . . 16,000 people or 10 per cent of the whole city could have been in the theater. It cost only an English penny to get in, about a twelfth of a skilled worker's daily wage. It wasn't, in short, at all like the modern theater . . . but the movies."

The Elizabethan theater, Holland points out, was not intended to be realistic. Costumes were mostly Elizabethan, with an occasional toga for a Roman hero, whose livery might still be Elizabethan. Furthermore, the acting style was more like recitation. There was one exception: Elizabethans liked real gore.

For all time
 Ben Johnson said that Shakespeare was "not of an age, but for all time." Indeed, says Holland, each age has made him its

own by adapting his works to its own standards. The trouble began with the publication of the "bad quartos" even before the playwright's death in 1616.

Holland favors the theory that these poor editions were sold to printers by actors who had been hired for bit parts and wanted to supplement their incomes. To support this view, he gives two versions of the opening scene of Hamlet. The bad quarto version, at first sketchy, becomes suddenly very similar to the authorized edition when Marcellus comes on stage.

The appearance of these poor editions prompted a group of former friends and colleagues to publish the First Folio in 1623. This is now the accepted source for most of the plays.

Editor's license
 For some reason subsequent editors chose not to follow the Folio. The more sophisticated Restoration editors "refined" the language and plots. Neoclassicists rearranged poor editions according to what they felt Shakespeare must have written.

The legend of the unlettered peasant began to be used as an excuse for improvements of Shakespeare's style. Perhaps the most radical editor was Thomas Bowdler (of "bowdlerize" notoriety), who put out a family edition purged of all passages "unfit to be read aloud by a gentleman to a company of ladies."

Next came the Romanticists, who elevated Shakespeare to the rank of god. The plays were "corrected," because the greatest of all bards could not have made such foolish errors. This attitude was accompanied by a deluge of relics worthy the reputation of a saint.

Theater in the mind
 In all these periods, Holland maintains, and even in our own day, the chief error has been neglect of Shakespeare's language. Modern editions, made

from the First Folio and the Second Quarto, preserve it well; but modern productions do not.

"Shakespeare's real theater is . . . what we may call the theater in the mind." To the betterment of that theater, Holland gives a lengthy discussion of such basic topics as the Elizabethan world view, the importance of order and degree, and the appreciative reading of imagery. This discussion is, perhaps, justified by the heterogeneous audience to which Holland addresses himself, but many readers are likely to find it elementary.

There follows a brief discussion of each of 13 of the plays: Macbeth, Romeo and Juliet, The Merchant of Venice, Henry IV, Part I, Julius Caesar, Hamlet, Twelfth Night, Othello, Measure for Measure, King Lear, Antony and Cleopatra, The Winter's Tale and The Tempest. The discussions are too brief to be complete, but they present several of the more important and frequently neglected aspects of each play.

Performance vs. Reading
 "The Shakespearean Imagination" is not a discussion of Shakespeare's works. It is, first, a useful handbook for many readers, second, a refreshing piece of writing, and third, a sounding board for Holland's views on how the plays should be performed.

Amateur groups, Holland maintains, frequently do better than professionals because their acting style is more like the Elizabethan and they are less likely to feel obliged to try something new, such as having three actors in the part of Hamlet on stage simultaneously.

For want of a good live performance, Holland recommends listening to one of the professional recordings, or simply reading imaginatively. His book will be a useful, though not invaluable, aid to that reading.

Making the Scene

NEXT WEEK MUSIC
 Nova Arte Trio — first-desk strings of the BSO present a program of Beethoven, Mozart, and Hindemith, in Kresge Auditorium, April 26, 3:00 p.m., tickets \$2.00 at the Box Office or in the lobby of Building 10.
 MIT Concert Jazz Band — (formerly the Technicians) concert at Kresge, April 25, 8:30 p.m., tickets \$1.00 at the door, free in the lobby of Building 10.
 Diploma Recital — Yasuko Tsukamoto, New England Conservatory, concert in Jordan Hall, April 22, 8:30 p.m., playing works of Chopin, Mozart, Debussy, and Prokofiev. Admission free.
 "H.M.S. Pinafore" — Harvard Gilbert and Sullivan Players, Agassiz Theater, April 23-25 and April 29-May 2. Tickets reserved at the Harvard Square Coop or by calling 864-8290.
 New England Conservatory — Symphony concert, playing Mahler's "Das Lied von der Erde" and William Schuman's "Credendum", Jordan Hall, April 23, 8:30 p.m., admission free.
 Brandeis Folk Festival — Saturday, April 26, at Brandeis University, Waltham; children's concert, 1:00

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p.m.; bluegrass concert at 3:00 p.m. with the New Lost City Ramblers, the Charles River Valley Boys, and the Lilly Brothers and Don Stover; evening concert at 8:00 p.m., with the Georgia Sea Island singers and dancers, New Lost City Ramblers, Roscoe Holcomb; tickets \$1.00 for the afternoon shows, \$2.25 for the evening.

BU Glee Club — works of Handel, Schutz Palestrina, and Lotti; April 23, 8:30 p.m. BU Concert Hall, 855 Commonwealth Ave., admission free.
 Boston Youth Symphony — Jordan Hall, April 26, 3:00 p.m., admission free.
 Gardner Museum — April 25, 2:30 p.m. the Shady Hill School sings Gilbert and Sullivan, excerpts from Princess Ida; April 26, 3:00 p.m., music for flute and piano, works by Telemann and Prokofiev; both concerts free.

"Collegium Musicum" — lecture on Haydn and Mozart, BU Recital Hall.

April 27, 8:30 p.m., admission free.
 Trio Flauto Dolce — performance of Baroque, Rococo, and Renaissance music, playing recorders, harpsichord, and bassoon, with Robert White, tenor; Jordan Hall, April 25, 8:30 p.m., tickets \$1.25 to \$3.50.

THEATRE
 LSC Contemporary Series — "Fifti," April 24, 6:30 and 9:00 p.m., Room 26-100, admission 60c.
 LSC Entertainment Series — "Phaedra," with Tony Perkins and Melina Mercouri, April 25, 5:15, 7:35, 9:45 p.m., Room 10-250, admission 35c.
 LSC Classics Series — "A Night at the Opera," Marx brothers, April 27, 8:00, Room 26-100, admission 50c.
 Dramashop — Ibsen's "The Wild Duck," April 22-26, Kresge Little Theatre, performances even, 8:30 except Sun. at 2:30; tickets \$1.50 in Building 10 and at the Box Office, ext 2310.

MISCELLANEOUS
 Drew Pearson — LSC lecture, April 26, 8:00 p.m., Kresge Auditorium; topic, "Behind the Scenes with the New Administration." Admission free.

Friedman Lecturer — Dr. Philip Morrison, Cornell University, on "Physics of Identity," first lecture April 28, 4:00 p.m., Little Theatre, Kresge Auditorium.

Ford Hall Forum — "Travel to Cuba Right or Privilege," presentation by three recent college graduates who traveled to Cuba in defiance of State department prohibitions; Jordan Hall, April 26, 8:00 p.m., admission free.
 Hayden Gallery — Paintings of Enrico Donati, open to the public week-days 10-5, weekends 1:00 to 5:00.

NEXT WEEK MUSIC
 Music of Brahms — New England Conservatory, April 29, 8:30 p.m., Jordan Hall; program includes the clarinet trio, Sonata in D minor for violin and piano, and songs. Admission free.
 Diploma Recital — Douglas Risner, organist, May 1, 8:30 p.m., King's Chapel, admission free; program includes music of Bach, Brahms, Hindemith.
 Gardner Museum — May 2, 3:00 p.m., music for clarinet and bassoon; May 3, 3:00 p.m., New England Conservatory Tour Chorus; both free.

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Institute community donates \$412.18 to Kennedy Library

A contribution of \$412.18 to the Kennedy Memorial Library, at Harvard, has been made possible by a drive initiated by Howie Lawrence '67 and Denny Pirotin '67.

Lawrence and Pirotin, whose campaign consisted of posting notices and of door-to-door soliciting in the dormitories, sent a telegram to Mrs. John F. Kennedy expressing sympathy upon her husband's death.

They asked Mrs. Kennedy to designate a charity to which the money should be contributed. The Kennedy Memorial Library was her choice.

Spring Festival to feature Verdi, Purcell, music inspired by Shakespeare, world premiere

This year's Spring Festival, MIT's biggest annual musical event, will feature works of Verdi, and Purcell and music inspired by William Shakespeare.

The opening concert, Saturday, May 2, will present the MIT Choral Society, directed by Klaus Liepmann, in Verdi's 'Requiem.' Assisting will be the Festival soloists, Helen Boatwright, Eunice Alberts, Donald Sullivan and Paul Matthen, and the Cambridge Festival Orchestra.

The following Saturday, May 9, at 8:30 pm, the MIT Concert Band directed by John Corley will give the world premiere of 'Transcendental Expressions,' composed for and dedicated to the band by Jeronimas Kacinskas, a Lithuanian refugee who now lives in Boston. The same

concert will commemorate the 400th anniversary of Shakespeare's birth with Dvorak's Othello Overture, performed by the MIT Symphony Orchestra, conducted by John Corley; 'An Elizabethan Suite' for strings and four horns, arranged by John Barbirolli from music by William Byrd, Giles Farnaby, and John Bull; and Holborne's 'English Ayres and Dances,' played by the Brass Choir, directed by Willis Traphagan.

The Festival will conclude on Sunday, May 10, at 3:00 pm, with a performance of Henry Purcell's 'The Fairy Queen' by the MIT Glee Club, the Wellesley College Choir, the Festival soloists, and the Cambridge Festival Orchestra, under the direction of Klaus Liepmann. All concerts are in Kresge Auditorium, and tickets are \$2.50 and \$3.50 each in Building 10.

April 26 concert is final performance of Nova Arte Trio

The Nova Arte Trio will appear for the last time together at MIT's Kresge Auditorium this Sunday, April 26, at 3:00 pm. The trio is composed of the principal violin, viola, and cello of the Boston Symphony Orchestra; the violinist and cellist are reportedly leaving Boston to join the Philadelphia Symphony.

The trio's program for Sunday's concert will be a Mozart duo for violin and viola, Beethoven's Trio Opus 9 no. 3, and Hindemith's String Trio. Tickets for this final concert are \$2.00, on sale in Building 10 or at the Box Office, ext. 2910.

Critic's Choice

1939 'Wuthering Heights' treated without feeling

By Gilberto Perez-Guillermo

I haven't had a chance to see Luis Bunuel's version of Emily Bronte's novel, 'Wuthering Heights,' but I have heard it is a highly personal interpretation which brings out the surrealist overtones in the book. William Wyler's version, now at the Kennedy Square, struck me as being the opposite of what I imagine the Bunuel film to be, and as I watched it, I couldn't help wondering what a master like Bunuel would have done with the material Mr. Wyler has treated with such a lack of feeling.

In a film rendering of 'Wuthering Heights,' I expect the creation of an uncanny atmosphere in which even the most natural emotions acquire supernatural overtones, something like what Carl Dreyer did, in a different context, in his great 'Vampyr.' I would also expect to be swept away by the flow of strong emotions. On both these counts the Wyler film fails. Mr. Wyler seems singularly uninvolved with his material, and his professional competence makes the film's coldness all the more apparent. Furthermore, 'Wuthering Heights,' which was made in 1939, appears somewhat dated now, the plot moving much too fast, without allowing the necessary time for an involvement on the part of the audience. This extra speed extends to Merle Oberon's lines; she is all wrong as Kathy anyway, giving the part none of the

aethereal, almost mystical romantic feeling it requires.

From 'Wuthering Heights' to 'The Best Years of Our Lives' to 'Ben-Hur,' William Wyler has been turning out pompous films with the same technical competence and the same lack of involvement with his material. A Wyler film always looks more like a Detroit car than like an expression of an artist's feelings. No wonder he is Samuel Goldwyn's favorite director.

I must confess Federico Fellini's '8½' (at the Esquire Cinema) stood a second viewing much better than I expected, and I think my previous unfavorable comments about the film should be revised somewhat. I still find it a tired effort, unnecessarily repetitive and self-indulgent, far from being the masterpiece it has been heralded to be. But Gianni di Venanzo (who photographed 'La Notte') did a beautiful job of photography, with its sharp blacks and whites, and the music by Nino Rota is perfect. Fellini may not have succeeded in portraying his alter ego on the screen with the necessary subjectivity, but '8½' remains a deeply felt work. This feeling is often treated in a self-indulgent manner, but it is also channeled into some superb sequences (notably his meetings with the cardinal, his childhood recollections, his relationship with his wife and mistress), and some good scenes which are tarnished only by the repetition. I have never thought Fellini is a great director, and I still don't, but he is certainly a good one, and '8½' does not contradict this.

Jules Dassin, a director of feeble talents, has been posing as an artist for too long already. His 'Rififi' (at LSC Contemporary Series) is to a great extent plagiarized from John Huston's 'The Asphalt Jungle,' which is a much better film in any event. His 'Phaedra' (at LSC Entertainment Series) is simply ludicrous.

Drew Pearson to speak in Kresge

Drew Pearson, Washington newspaper reporter and columnist, will speak at MIT on Sunday, April 26, as guest of the Lecture Series Committee. His talk, entitled 'Behind the Scenes with the New Administration,' will be presented at 8:00 pm in Kresge Auditorium.

Mr. Pearson has been covering Washington news since 1929; in

1932 he started his nationally-appearing column, 'Washington Merry-Go-Round,' which has won several awards for distinguished journalism.

Mr. Pearson is also the author of a book, 'USA—Second Class Power?,' published in 1958, which discusses the still-current question of the missile gap and the development of space satellites.

Peter Sellers
George C. Scott
Stanley Kubrick's
Dr. Strangelove
Or: How I Learned To Stop Worrying
And Love The Bomb



A Columbia Pictures Release
"DR. STRANGELOVE" shown daily
9:55 A.M.-11:55 A.M.-1:55 P.M.-
3:55 P.M.-5:55 P.M.-7:55 P.M.-9:55 P.M.
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presents
THE NOVA ARTE TRIO
of the New England Conservatory of Music
in a program of
MOZART, BEETHOVEN, & HINDEMITH
Sunday, April 26 3 P.M. Kresge
seats \$2.00 reserved,
on sale in lobby of building 10 or call x2910

PEOPLE WHO LAUGH... WON'T BLUSH!

	<p>"WORDS THAT ARE STILL A LITTLE STARTLING FOR THE MOVIES... AND FUN IT IS!" — Bosley Crowther, N. Y. Times</p> <p>★★★★★! —Wanda Hale, N. Y. Daily News</p>
<p>"UNPRECEDENTED CANDOR!" — Brendan Gill, The New Yorker</p> <p>"A NEW FRENCH FILM TYPICAL OF THE IMAGINATIVE IMPORTS WHICH DELIGHT!" — LIFE Magazine</p>	
<p>THE WAR OF THE BUTTONS IS "A FRENCH COMEDY CLASSIC"</p> <p>— Winston, N. Y. Post</p>	<p>Now Showing! E. M. LOEW'S WEST END CINEMA Opp. North Station 523-4050 PARKING REAR OF HOTEL MADISON</p>

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"THE WILD DUCK"
Directed by **JOSEPH EVERINGHAM**
LITTLE THEATRE, KRESGE AUDITORIUM
Wednesday, April 22 through Saturday, April 25
at 8:30 P.M.
Special Parents' Weekend Matinee on Sunday, April 26
at 2:30 P.M.
All Tickets \$1.50 — Reservations Ext. 2910

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INTRIGUING! VARIETY COLOR

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by the
MIT CONCERT JAZZ BAND
SATURDAY, APRIL 25 9:30 P.M.
Free tickets in the lobby of Building 10

theatre . . .

Williams play erratically produced

by Charles Foster Ford

"The Glass Menagerie" is very much the sort of play a young poet would write as his first full-length effort. It is wispy, nostalgic, bittersweet, and beautiful. It is full of lines which mean more in context than they ever could alone. And, at the Charles, most of the delicate emotion of Tennessee Williams' first success remains intact.

The play is about decaying Southern romanticism in a very realistic world, but it cannot be dismissed so quickly. The battle of Tom Wingfield for freedom and adventure is much more universal than that. The efforts of his mother Amanda to throw a veil of dignity and grace over her poverty-stricken life is also a recognizable comment on the world, not merely the dying South.

The production at the Charles Playhouse is an uneven one. Betty Field, as Amanda Wingfield, must carry most of the first act. It is her romantic pretensions which are on display, her concern for her children's attitudes and affairs which dominate the action, her attitudes to which Laura and Tom react.

Unfortunately, Miss Field plays most of this act on a flat

THE GLASS MENAGERIE, by Tennessee Williams, produced by Frank Sagrue, directed by Michael Murray; lighting by Hugh E. Lester, Scenery by Richard Gullickson, Costumes by Jesse Sevilla; at the Charles Playhouse.
CAST
Amanda Wingfield . . . Betty Field
Laura Wingfield . . . Eunice Brandon
Tom Wingfield . . . Carlton Colyer
Jim O'Connor . . . Tom Keena

emotional level, and with a monotonous So'th'n accent which has no variety with which to convey her reactions. Often the value of the lines shines through this unrelieved surface, but all too often it is blurred or ignored.

The second act, however, comes entirely alive. As brother Tom and his mother prepare for the arrival of a "gentleman caller" for shy, crippled sister Laura, all the detail and range of performance absent in the first half suddenly floods the stage. The reason is obscure. Tom Keena, the "gentleman caller," is perhaps the best portrayed character in the cast, but the excellence of his performance is not enough to explain the act's success.

Eunice Brandon, who played hesitantly and almost absently through the first act, blossoms after the act-break into a fully-realized character. Her mother's

hopes for her come to nothing, her high-school flame (worshipped from afar), comes not to waken her from her dreams, but to end them forever; and, here at least, her defeat is sincere and moving.

Carlton Colyer has a difficult time with some of his lines as Tom Wingfield. When he acts as narrator, there are several references to the second world war. . . . which was taking place outside the theatres when the play was written . . . which he finds quite unconvincing. He has trouble getting properly angry, also. When he and his mother quarrel, there is a tendency for them both to sound like petulant four-year-olds. In other moods, however, Mr. Colyer does quite well.

This is a play excellently suited to the Charles' strange stage. The mists of memory and excellent area-lighting transform the three-quarter-round set into a fluid bowl of phantoms. Technically, at least, it is a well-realized play.

And it is often an annoyingly excellent performance as well. The second act is as fine and fragile a thing as you can find anywhere, and even at the end of the first there is a hint at the genuine quality to come. It is almost as if cast and director spent all their attention on the last half of the play. Though it is now open and running, perhaps a bit more work could make it a uniformly pleasing play.

On the town: Boston entertainment offers top attractions for weekend

By John Montanus

Visitors this Parents Weekend will have an opportunity to see some top entertainment in Boston. Plays, movies, music, art, and several special attractions are currently running in downtown and Back Bay theaters, auditoriums, and museums. Families intending to "do the town" will find that the Boston level of entertainment matches that of any other city in the country, in quality if not in quantity.

Legitimate theatre offers top enjoyment, and the current selection in town is varied and generally good. Shakespeare's "Julius Caesar," at the Loeb Drama Center in Cambridge, represents the more classical repertory; John Osborne's "Luther," starring John Heffernon and currently at the Shubert Theatre, presents the latest in drama. Boston's own groups are both presenting modern plays; the older Charles Players are performing Williams' "The Glass Menagerie" (reviewed in this issue), and the newly-formed Theatre Company of Boston, at the Hotel Bostonian Playhouse, is producing two plays by Harold Pinter, "The Room" and "The Dumbwaiter."

Over the weekend there will be several limited-engagement shows that may prove interesting. The Lipizzaners, the "White Stallions" of the recent Walt Disney movie, are performing at the Boston Garden through Sunday; performances are at 8:00 pm except Sunday at 3:00 pm, and tickets cost \$2-\$6. The Bayanihan Company, an exotic dance group from the Philippines, will give a single

performance at the Donnelly Memorial Saturday at 8:30 pm. Also in town and moving soon to the World's Fair is Mike Todd Jr.'s production, "America, Be Seated," called "a modern minstrel show," a slapstick pageant of American history. Performances, at the Wilbur Theatre, are at 8:30 evenings and at 2:30 for the Saturday matinee.

Some of the year's best movies are playing here now, including "Tom Jones" at the Beacon Hill. The classic "Wuthering Heights," starring Laurence Olivier, Merle Oberon, and David Niven, is now at the Kenmore Square Cinema. And for those who have never seen Cinerama, "It's a Mad, Mad, Mad, Mad World" is playing downtown. Recommended are "Dr. Strangelove," at the Astor, and "The Servant," at the Capri, both first-class and sophisticated films.

This is not a very good week for music, but there are concerts on Friday and Saturday at Jordan Hall, 8:30 pm, and at the Gardner Museum, Saturday and Sunday, at 3:00 pm, all free—don't think this reflects on the quality of the concerts; they are consistently good.

And of course there is Boston itself (I'm serious)—the museums, the Common and Public Garden, the Freedom Trail, the restaurants, and the stores. These are recommended to those planning an extended visit of several days. In any case, parents will be able to sample some of the attractions Boston holds for college students.

movie schedule

Wednesday, April 22 through Tuesday, April 28 (unless otherwise stated, the Sunday schedule is the same as the weekly schedule except that no movies are shown before 1:00 p.m.)

ASTOR — "Dr. Strangelove," Mon.-Sat. 9:55, 11:55, 1:55, 3:55, 5:55, 7:55, 9:55; Sun., 1:25, 3:25, 5:25, 7:25, 9:25; shorts start 25 minutes before the feature.

BEACON HILL — "Tom Jones," 10:15, 12:30, 2:45, 5:00, 7:15, 9:30; Sun., 1:00, 3:10, 5:20, 7:30, 9:40.

BOSTON CINERAMA — "It's a Mad, Mad, Mad, Mad World," evenings.

BRATTLE — End of film orgy: Today, "Miss Julie," Thursday, "We Are All Murderers," Friday, "Mr. Hulot's Holiday," Saturday, "Ugolino," Painter of Women, "Starting Sunday: 'Therese,' based on the novel by Francois Mauriac. Shows daily 5:30, 7:30, 9:30, matinees Sat. and Sun. 3:30.

CAPRI — "Paris When It Sizzles," 10:30, 12:15, 2:15, 4:15, 6:15, 8:15, 10:15; "The Servant," 12:20, 4:10, 8:00.

CINEMA KENMORE SQUARE — "Wuthering Heights," 2:30, 4:20, 6:10, 8:00, 9:50 p.m.

EXETER — "Tara Tahiti," 2:00, 3:50, 5:35, 7:25, 9:10.

ESQUIRE — "8½," evenings only, no matinees, Mon.-Fri. 8:30 p.m. "The Long Arm of the Law," 7 p.m.

GARY — "The Pink Panther," 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00; Sun. 1:00, 3:00, 5:00, 7:00, 9:00.

HARVARD SQUARE — "Flight from Ashiya," 3:50, 7:45; "Dr. No," 1:50,

5:45, 9:35. Next Tuesday, in place of 9:35 showing of "Dr. No," sneak preview of new suspense-adventure film starring Sean Connery, Daniela Bianchi. Also "Beatles" short subject.

KEITH MEMORIAL — "Captain Newman, M.D.," Mon.-Sat. 9:45, 1:35, 5:30, 9:20; Sun. 2:30, 6:05, 9:40.

LOEW'S ORPHEUM — "Advance to the Rear," weekdays 9:52, 11:49, 1:46, 3:46, 5:46, 7:46, 9:46; Sun. 12:22, 3:19, 5:16, 7:13, 9:13.

MAYFLOWER — "Flight from Ashiya," no times available.

MUSIC HALL — "A Tiger Walks," weekdays and Sat. 9:30, 11:30 a.m. 1:30, 3:35, 5:40, 7:40, 9:40 p.m. Sun. 1:30, 3:35, 5:40, 7:40, 9:40 p.m.

PARAMOUNT — "The Seven Faces of Dr. Lao," weekdays and Sat. 11:20 a.m. 2:45, 5:10, 9:40 p.m. Sun. 2:25, 5:50, 9:20 p.m. "Girls at Sea," weekdays and Sat. 9:50 a.m., 1:15, 4:45, 8:10 p.m. Sun. 1:00, 4:25, 7:50 p.m.

PARK SQUARE CINEMA — "The Connection," 1:35, 3:30, 5:25, 7:15, 9:10; short, "A la Mode," starts 10 min. before feature.

SAXON — "The Cardinal," evenings 8:30, matinees Mon.-Fri., 2:00, Sat.-Sun. 2:00, 5:00.

UPTOWN — "Sunday in New York," "Any Number Can Win," no times available.

WEST END CINEMA — "The War of the Buttons," 11:15, 1:15, 3:15, 5:15, 7:15, 9:15.

MIT executive output 7th highest in nation

A recent survey conducted by Stewart Howe Services found that 50 of this country's 2100 accredited colleges and universities produce 70 per cent of the presidents and board chairmen of the nation's 750 top corporations.

Twenty-seven of the 750 executives attended MIT, placing it seventh behind Yale (85), Harvard (53), Princeton (44), the University of Michigan (37), Cornell (34), and the University of Illinois (29).

The study found that 73 per cent of executives who went to college belonged to fraternities, while fraternity men compose less than 25 per cent of the average student body.

Management School has open house, tea

15 The Sloan School of Management will sponsor an open house in building 52 from 2:00 to 4:00. Classrooms will be open, and the computation center will be open for inspection. There will be a tea at 4:00 with members of the faculty in the Schell Room, 52-461. The luncheon speaker will be Dean Howard W. Johnson.

Theatres

CHARLES PLAYHOUSE — "The Glass Menagerie," by Tennessee Williams; performances Wed. at 8:00, Thurs. and Fri. at 8:30, Sat. at 5:30 and 9:00, Sun. at 3:00 and 7:30.

HOTEL BOSTONIAN PLAYHOUSE — two Pinter plays, "The Room" and "The Dumbwaiter," evenings, Thurs.-Fri. Sun. at 8:30, Wed. 8:00, Sat. 6:00 and 9:30; mat. Thurs., 3:00 p.m.

LOEB DRAMA CENTER — "Julius Caesar," by William Shakespeare, eves. except Sun. at 8:30.

SHUBERT — "Luther," starring John Heffernon, eves. except Sun. at 8:30, mats. Thurs. at 2:15, Sat. at 2:30.

WILBUR — "America, Be Seated," minstrel show; eves. 8:30, Mats. Wed. at 2:15, Sat. at 2:30.

UNICORN

YANA COFFEE HOUSE

DAYLE STANLEY

through May 3

ELIZABETH COTTON

this week

LECTURE SERIES COMMITTEE CALENDAR

Contemporary Series

'RIFI'FI'

Friday

April 24

6:30 & 9:00

26-100 60c

Entertainment Series

'PHAEDRA'

Saturday, April 25

5:15, 7:30 & 9:45

26-100

35c

Lecture Series

DREW PEARSON

"Behind the scenes with the new administration"

Sunday, April 26

8:00

Kresge

Classic Series

The Marx Brothers in 'A NIGHT AT THE OPERA'

Sunday, April 26

8:00

10-250

Admission without card 50c

FREE

WUTHERING HEIGHTS
CINEMA KENMORE SQ.
JACK GELBER'S
"THE CONNECTION"
PARK SQ. CINEMA
ACADEMY AWARD WINNER
"BEST FOREIGN FILM"
PETER SELLERS in
"THE WRONG ARM OF THE LAW"
CHASS AVE. BY HARVARD CENTRAL ST.
CINEMA
Note — Special Student Prices
Mon.-Thurs. \$1 (Kenmore & Park Square) 75c (Esquire)

Tours, exhibits, awards to mark Parents' Weekend

Weekend program to cover three days

Campus entertainment

Tech clubs to contribute to weekend festivities

Friday, April 24

6:30 and 8:30 p.m.
"Aqua Capers '64," exhibition and clown diving
Yale swimmers,
Alumni Pool (admission \$2.00).
8:30 pm
The MIT Dramashop in "The Wild Duck," by Ibsen,
Kresge Little Theater (admission \$1.50).
Concert Band,
Kresge Auditorium.

Saturday, April 25

8:45 am to 12:00 noon
Registration,
Lobby of Building 10.
Attend regular classes with sons and daughters
11:00 am to 12:00 noon,
Demonstration lectures:
Dr. Hans Mueller,
Professor of Physics,
Room 26-100.
Dr. Hans-Lukas Teuber,
Professor of Psychology,
Room 6-120.
Dr. Warren M. Rohsenow,
Professor of Mechanical Engineering, Room 10-250.
12:15 to 1:30 pm
Luncheons:
School of Engineering,
Morss Hall, Walker Memorial.
School of Science,
Burton House Dining Hall.
Schools of Architecture,
Humanities and Social Sciences, and Management,
Baker House Dining Hall.
Department of Physics,
Graduate House.
1:45 to 5:00 pm
Departmental programs and tours:
2:00 pm
Varsity Tennis vs. Wesleyan
DuPont Courts (Briggs Field).
2:30 to 3:30 pm
Lightweight crew: Harvard, Dartmouth, and MIT for the Biglin Cup, Charles River.
4:00 to 5:30 pm

Heavyweight crew vs. Yale, Charles River.
6:00 to 7:30 pm
Banquets:
Burton House Dining Hall,
Morss Hall, Walker Memorial,
Graduate House.
8:30 pm
Awards Convocation:
Presentation of awards.
Host, Kenneth R. Wadleigh,
Dean of Student Affairs,
Address by
Dr. Julius A. Stratton, President
Kresge Auditorium.
8:30 to 12:00 pm
APO Spring Carnival, booths by living groups and activities,
Rockwell Cage.

Sunday, April 26

Morning
Religious Services
Chapel.
2:00 to 4:30 pm
Open Houses:
Senior House:
Professor and Mrs. Murray Eden,
House Master.
Alumni Houses: Professor Ernst Frankel, Faculty Resident.
Baker House:
Professor and Mrs. Lee Gamble,
House Master.
Burton House:
Professor and Mrs. David White,
House Master.
Nonresident Student Association, J. Mark Mobius,
Tutor,
McCormick Hall,
Professor and Mrs. Lynwood S. Bryant, House Master.
Other Living Groups:
at their houses.
2:00 to 5:00 pm
Open House, Dean and Mrs. Frederick G. Fassett, Jr., Dean of Residence, Dean's House.
3:00 pm
Nova Arte Trio, with principals of the Boston Symphony,
Kresge Auditorium (admission \$2.00).

Several of MIT's activities are planning entertainment over the coming weekend; the productions are typical of MIT's campus performances throughout the year.

Dramashop, the student theatre group, will be presenting its major production of the spring term, Henrik Ibsen's "The Wild Duck," a domestic tragedy. Beginning on Wednesday, the play will be produced every evening through Saturday at 8:30 pm in the Little Theatre of Kresge Auditorium, with a special performance on Sunday for the parents at 2:30 pm. Tickets are \$1.50 at the Box Office or in Building 10.

MIT's Concert Jazz Band, formerly called the Technicians, will demonstrate the 'big band sound' that has been so popular at campus dances with a concert Saturday at 9:00 pm in Kresge Auditorium. The group plays original arrangements, many of them written by their moderator, Herbert Pomeroy. Tickets are \$1.00 at the door — free in Building 10.

There will be a special rehearsal Friday by the Concert Band, playing "Transcendental Expressions," by Jeronimas Kacinskis, written for the band in 1944 and receiving its world premiere at the Spring Festival on May 9. The rehearsal will start at 7:30 and is open to the public.

The MIT Swim Club is sponsoring a special show, the Aqua Capers, on Friday at 6:30 and 8:30 in the Alumni Pool. Featuring both champion swimmers and comedy teams, the show is also graced by the Logarithms, the MIT close harmony group. Proceeds from tickets go to the US Olympic Fund.

Computation Center, Magnet Lab to offer tours for parent visitors

The Computation Center in Building 26 and the National Magnet Laboratory will be open from 1:00 to 4:00 P.M. They will each be offering tours of their facilities.

The Computation Center will be demonstrating the IBM 7094 Computer with its provisions for time-sharing. The National Magnet Laboratory will be open for demonstration of its solenoidal magnets and 10-million watt power supply.

Visitor's guide to MIT numerology; numbers game popular with students

Numbers are important at MIT. All buildings are numbered, courses are numbered, and each student has his own number for purposes of record-keeping by MIT. As an aid to those not familiar with this system, here are a few hints on what all those numbers mean: Buildings: each room has a two-part number. The first part is the number of the building it is in. The first digit of the second part is the floor number. Thus 26-372 is in Building 26 (the location of which can be found on any map of MIT), on the third floor.

Courses: Each course at MIT has a number. Subjects within the various courses consist of a number with a decimal point (such as 5.01, 18.02, etc.). The first part of the number is the course in which it is offered (such as 5, chemistry, or 18 mathematics), the second part specifies the subject.

There are no courses 9, 11, or 17. Courses 19 (Meteorology), 20 (Food Science and Technology), 22 (Nuclear Engineering), and 23 (Modern Languages) are offered only on the graduate level. Psychology, which has been a division of course 14, will next year become course 9.

Listed below are the undergraduate courses and their numbers:

Aeronautics and Astronautics	16	Economics and Social Science	14
Architecture	4	Electrical Engineering	6
Biology	7	Geology and Geophysics	12
Chemical Engineering	10	Humanities	21
Chemistry	5	Industrial Management	15
Civil Engineering	1	Mathematics	18
		Mechanical Engineering	2
		Metallurgy	3
		Naval Architecture and Marine Engineering	13
		Physics	8

The Alpha Chi Chapter of Alpha Phi Omega, the national service fraternity, will present "Second Century Fun," the fifth annual MIT Spring Carnival, Saturday, April 25, from 8:30 pm to 1:00 am in Rockwell cage. Over twenty-five living groups and activities will sponsor games of skill and chance in an endeavor to provide an evening of entertainment for the MIT community, and to help raise money for APO's service projects.

Some of the booths to be seen are a dunking booth; tricycle races through the crowd; a gasoline-engine run roulette wheel; a ping pong ball space race; and a strength tester. There also will be a booth at which the MIT vampire, which was on this year's blood drive poster, will be silk-screened on any T-shirts, sweat-shirts, etc. brought in by the customer.

Nearly all the booths will be giving out either prizes or coupons which will be redeemable for prizes at the APO ticket redemption center. This center will enable people to win several large prizes instead of many small prizes. Trophies will be awarded to the two booths having the most business, and to the most original booth. Another attraction will be a free playground consisting of swings and seesaws. There will also be a refreshment booth.

The highlight of the evening will be at 10:30, when six-man teams will try to beat the record of 17 minutes, 22 seconds set by the APO team on April 16, in the popular collegiate sport of Piano Reduction.

The Carnival has been preceded by a publicity effort including posters, two "dingle-dangles," the posters in Building 1 and 2; a sign on the Student Center construction fence; an original five-minute-long movie; and a twenty-eight-foot steel structure on which are mounted a mechanical "flip-flop" and a home-made bubble blowing machine. The steel structure, erected last week in the lobby of Building 10, is labelled "Building 10%."

Awards Convocation

Honors to be given to outstanding students

The annual Awards Convocation will be held on Saturday, April 25, at 8:00 pm in Kresge Auditorium. The program will feature awards given for contributions and excellence in the various areas of student life.

The athletic awards to be given include The Clifford Award, given to the outstanding athlete of the year; the Cochrane Award, given for athletic excellence and sportsmanship; the Beaver Key Trophy for outstanding participation in intercollegiate athletics; and the Q-club award for the out-

standing freshman athlete of the year. In addition, various Athletic Association awards will be presented.

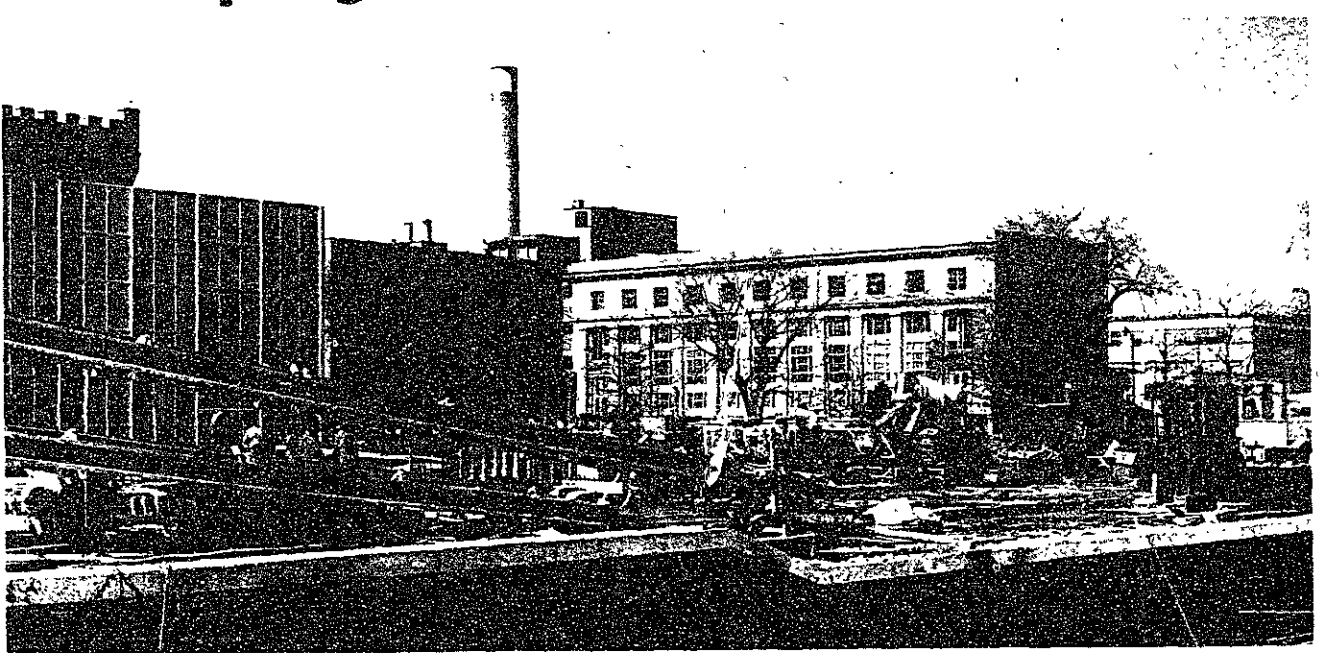
The academic awards include the presentation of the Tau Beta Pi Outstanding Freshman Award; the Baton Society awards for contributions to the field of music; the Scott Paper Foundation leadership Award, the junior award for high character and potential for making outstanding contributions to the professional aspects of engineering in business or in-

dustry; and the Everett Moore Baker Award for Outstanding Undergraduate Teaching.

President Stratton will present the Activity Development Board awards for participation and excellence in activities, and Mrs. Karl Taylor Compton will present the Karl Taylor Compton Prizes given for "outstanding contributions in promoting high standards of achievement and good citizenship within the MIT community."

The convocation will close with an address by Dr. Stratton.

Work progresses on new Student Center

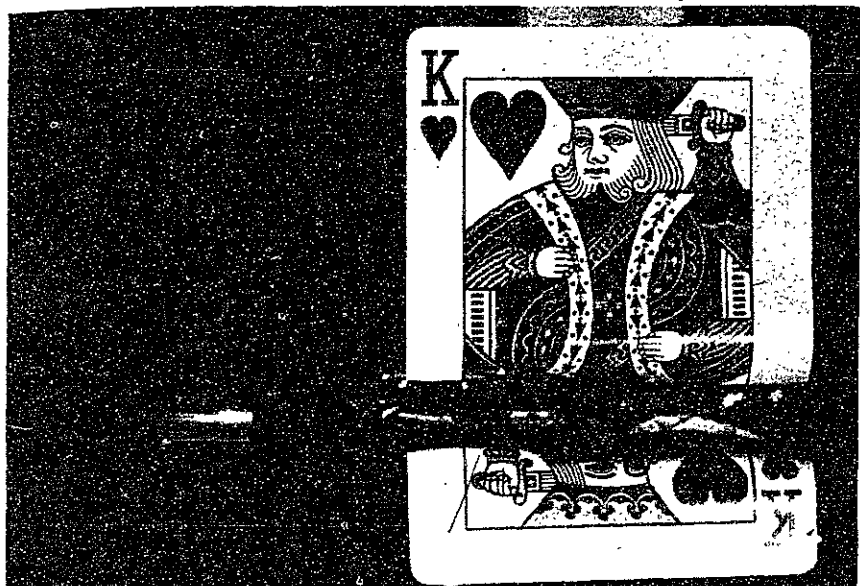


Construction continues on MIT's new Student Center. Target date for completion is in the fall of 1965. Here construction workers pour concrete for the new foundations. The new center will bring increased space and facilities for student activities and government.

MIT to open doors to parents on weekend

Photo by Edgerton

Strobe light stops bullet



A high-powered rifle bullet slashes a playing card in a $\frac{1}{2}$ micro-second exposure taken in Dr. Harold Edgerton's Stroboscopic Lab, Room 4-405. Strobe pictures are on exhibit in Building 10, floors 3 and 4.

Physics Department

Students to show typical labs

8 The Physics Department will be represented this year by six laboratory experiments, two each from the freshman, sophomore, and junior year laboratory subjects.

Each experiment will be explained by one student who will illustrate explain the lab, and answer any questions parents may have.

The freshman experiments will illustrate conservation of two dimensional momentum and the motor driven gyroscope. Interference, diffraction, spectrometry, and electrostatic forces will be the topics for the experiments at the sophomore level. The junior laboratory will demonstrate a scintillation counter and statistical fluctuations near the critical point of a fluid.

All experiments will be performed continuously from two to four p.m. in Rooms 4-355 and 4-357.

Humanities Department to sponsor 3 discussions by students and faculty in Library Lounge

24 The Department of Humanities will sponsor a series of three informal discussions composed of students and faculty in the Hayden Library Lounge, 14E-310, from 2:00 to 5:00. The luncheon speaker will be Richard M. Douglas, head of the department.

The three discussion groups will commence on the half hour. The first discussion is entitled "A

Model Discussion." This group will be led by Hubert Dreyfus, and will concern itself with the letters of St. Paul. This is concerned with the core courses in humanities, and will include students.

The second discussion is a talk by Professor Douglas entitled "Humanities and the Institute," which will discuss the philosophy of Humanities.

The third discussion will be a lecture by Professor Roy Lamson on "Experience of Course 21."

Faculty members and students will be available following the discussions for informal talks. Refreshments will be served in the Hayden Library Lounge, 14E-310.

Architecture studio drafting rooms open

4 The Department of Architecture will hold open house in its drafting rooms and studios on the fourth floor of Building 7 from 2:00 to 4:30.

Members of student projects will be on hand to answer questions during this time. Faculty members will be available for informal discussions and refreshments will be served in the Emerson Room (7-403).

Geology Dept. will have tours, talks

The Department of Geology and Geophysics is now in the process of moving into its new quarters in the Green Center for the Earth Sciences. As a result, most of the exhibits and laboratory equipment is being shipped and is not available for viewing.

There will be, however, a number of tours and an opportunity for parents to talk informally with members of the faculty from 2:00 to 3:30 in Room 24-421. Students will be present from the freshman seminar in Spectrochemical Analysis and Professor William H. Pinson's Astronomy course, prepared to discuss these subjects.

The Sophomore field camp and those theses and field theses now under way will also be described and discussed.

XIV to open doors

14 The Department of Economics and Social Science will be sponsoring an open house in Building 52 and an informal coffee hour with members of the faculty in the Freeman Room, 52-361.

The luncheon speaker for the department will be Robert L. Bishop, newly-appointed Acting Dean of the School of Humanities and Social Science.

Civil Engineering to show facilities; faculty-students to discuss program

1 The activities of the Department of Civil Engineering will center about the Spofford Room (1-236), where refreshments will be continuously available from 1:45 to 4:00 p.m.

Faculty members will be there, and a guide booklet describing the location and activities of each of the labs will be distributed.

The program, organized by undergraduates in the department, will enable parents to see many of the major facilities, including the hydrodynamics lab, computation lab, soil mechanics lab, structural mechanics lab, and engineering materials lab.

Metallurgy Department will present closed-circuit TV demonstrations

3 The program of the Department of Metallurgy will open at 2:00 p.m. with a general meeting in Room 8-309, where faculty members will speak briefly and laboratory tours will begin.

From 2:15 to 2:45, there will be closed circuit demonstrations of stress corrosion and martensitic transition in Room 8-419. In the next half-hour, the Semiconductor Research Laboratory (8-240), X-ray Diffraction Laboratory (8-113), and High Temperature Deformation Laboratory (4-015) will be open to visitors.

From 3:15 to 3:45 crystal growth demonstrations will go on in the Solidification Laboratory (35-419). Following this, a coffee hour including informal talks with faculty members will be held in the Given Room (35-500).

Chem. Eng. will conduct tours, show movies and demonstrations

10 The Department of Chemical Engineering will sponsor a group of tours of laboratory facilities and demonstrations of student work.

The starting point for tours, which will begin at 1:45, is in the Lewis Conference Room on the first floor of Building 12. From 1:45 to 2:00 there will be a demonstration of light scattering in polymer characterization.

Rheology of abnormal human blood will be the subject of a demonstration from 2:00 to 2:15 followed by a movie to 2:40 on rheology of human blood.

From 2:40 to 2:55 there will be a demonstration of emulsion polymerization of vinylidene chloride, and diffusion in molecular sieve will be the topic from 2:55 to 3:10. The freshman seminar section will show catalysis by ion exchange resins from 3:10 to 3:25, and from 3:25 to 3:45 a movie, 'Fluid Flow', will be shown.

An informal coffee hour with faculty members in the Lewis Conference Room will follow from 3:30 to 4:30 p.m.

Naval Architecture Dept. to show parents facilities

13 The Department of Naval Architecture and Marine Engineering will sponsor a number of tours of its facilities.

From 2:00 to 2:45 there will be a tour and demonstration of the Ship Model Towing Tank in building 48, and from 2:45 to 3:15 the Heart Nautical Museum, on the first floor of building 5, will shown. The tour of the Propeller Tunnel will take place from 3:15 to 3:45 in room 3-270.

The department will sponsor an informal coffee hour with members of the faculty from 3:45 to 4:30 in room 5-311.

Faculty to give lectures; informal tea to highlight Math Dept. program

18 The Department of Mathematics will sponsor discussion and a tea with students and members of the faculty from 2:00 to 3:00 in Room 2-290. Demonstration lectures, by members of the faculty, will highlight the afternoon.

The lectures to be given include The History of Mathematics by Professor Phillip Franklin; The Undergraduate Mathematics Curriculum at MIT by Professor James Munkres and Professor Louis N. Howard (Applied Mathematics), and Placement for Graduates in Mathematics by Professor Kenneth M. Hoffman.

ME Dept. program center around EPL

2 The Department of Mechanical Engineering has organized a program centering around its Experimental Project Lab, a completely undergraduate undertaking. All visitors will meet in Room 3-270, where the final details of the activities will be announced.

Exhibits to be displayed and explained by students include the ENPORT Analogue computer, a Braille Reader, an inverted pendulum servo-mechanism, a demonstration of fluid flow using fluorescent material, a fluid diode, and a demonstration of a controlled burning rate device. On the third floor of Building 3, in the Man-Machine Lab, a remote manipulator will be on display. This project includes a three-second delay between excitation and response.

Professor Steven Coons will show and discuss his movie on the computer he developed for aiding and drafting procedures. Also to be shown are a series of movies of Fluid Mechanics made by Professor A. Shapiro. These will be run continuously throughout the afternoon in 3-270.

Between 3:00 and 4:30 the department will sponsor a coffee hour for faculty, parents, and students in the Miller Room (3-070).

Space War also shown

EE labs exhibited

6 The Electrical Engineering Department will begin at 2:00 with laboratory and project demonstrations. Laboratory for the subject 6.70 and student projects will be shown in Rooms 3-402 and 10-475.

Other exhibits include a short movie showing student life in Room 4-231, a high-speed photography exhibit in the stroboscopic laboratory, Room 4-405, a demonstration of Space War on the TX-0 computer in Room 26-248, and the Solid State Laboratory, Room 10-070.

From 3:00 to 4:30 the department will hold a coffee hour in the Vannevar Bush Room (10-105).



Robert M. Mitchell, freshman engineering student, operates the console of an IBM 1620, computer, part of the Civil Engineering's new automated classroom.

Aeronautics Department

Tour to wind tunnel, computers

16 The Department of Aeronautics and Astronautics will present a number of tours of its facilities showing student work. Informal discussion with members of the faculty and the starting point for tours will be in the duPont Room, 33-207, from 2:00 to 4:00.

The tours, beginning at 2:30 will visit various laboratories and student demonstrations throughout the department. Included in this are brief explanations of inertial guidance and aircraft instruments, analog computers, wind tunnel experiments, and various experimental apparatus. Also included are visits to the drafting rooms and the library.

Chemistry will conduct tours of Spectroscopy and Analytic labs

5 The Chemistry Department's program will begin at 2:00 p.m. in the Moore Room (6-321), with introductory remarks by faculty members. Tours of the Organic Spectroscopy Laboratory (4-459A) and the Analytic Laboratory (2-104) will begin in the Moore Room at that time, and again every half hour until 4:00.

MIT student government among best in nation

President Stratton commends Inscomm

President Julius A. Stratton addressed the new and retiring members of the Institute Committee at a banquet Tuesday, April 7, given by Dean and Mrs. Kenneth R. Wadleigh. Dr. Stratton spoke of the unique role of student government at MIT. Rather than painting an idealistic picture, he demonstrated the importance of MIT's student government by comparing it to those of other schools, which have a nearly ineffective and inoperative student government. It was pointed out that the Institute's is one of the most powerful and active in the United States.

President Stratton also spoke of the difficulties usually arising between a student government and an administration. He cited the common attitudes that 1) the administration is "stepping on the toes" of the students, and that 2) student government is totally ineffective because the administration reserves the right to reverse any policy decisions made by the student body. However, he made it clear that these problems are overcome at MIT by an administration that permits the students maximum opportunity to both govern themselves and to originate, organize, and carry out their own projects.



President Julius A. Stratton greets the Inscomm executive committee. Left to Right are: Jim Wolf, Secretariat; Bill Samuels, UAP; Dr. Stratton; Matt Mleziva, Member-at-large; and Jim Taylor, Treasurer.

The student body—aware of the vote of confidence given to it by the administration—demonstrates this awareness by maintaining a high level of interest and participation in student government activities.

This issue of The Tech, in conjunction with Parents' Weekend, is being sent to next year's freshmen. This will explain the mention of facts that may seem perfectly obvious to the Techman, but not to an outsider. However, I am sure that much of this material will be extremely informative for the average student.

This section, edited by the Public Relations Committee to Inscomm, is therefore intended to stimulate interest and correct any

misconceptions that may arise concerning our student government.

Douglas Spreng, Chairman
Public Relations Committee

New UAP describes his office; gives plans for coming year

By Bill Samuels

MIT student government is a successful administrative and educational organization as a direct result of the decision-making responsibilities given to it by an administration which has confidence in its students. As a result of this trust, we students have the opportunity for valuable experience while influencing the course of events.

My main job as Undergraduate Association President is to preside over the central student government group, Inscomm, and to oversee the thirteen subcommittees. These subcommittees deal with such topics as finances, education, public relations, foreign students, the Student Center and others. The UAP also works constantly with the Deans, both as a sounding board and as a repre-

sentative of student opinion, besides becoming involved in many special projects.

This year our main challenge is in developing final programs for the new Student Center, which will open in the fall of 1965. We are also involved in renegotiating the present \$60,000 Finance Board budget and in encouraging political debates on campus next year. Also, the Boston Council—a group of area student government leaders—is well on its way to developing coordinated programs whereby colleges in the Boston area may benefit by the exchange of ideas.

Our tasks are such that we are sure of an interesting year in which we will be able to make a beneficial contribution to MIT life.

Permanent Inscomm committees

Student Committee on Educational Policy

The Student Committee on Educational Policy is the recognized voice of the student body by the faculty on academic matters. In the constitution, SCEP's duties are defined: "to investigate matters of educational import at M.I.T. make recommendations to faculty and administration in behalf of the undergraduate student body, receive and investigate complaints and suggestions of undergraduates, and to inform the Undergraduate body of changes in the educational policy of the Institute . . ."

The committee itself is composed of twelve to twenty undergraduates chosen so as to broadly represent the undergraduate community from the viewpoint of class course and living group. Much of the work of SCEP is carried out in smaller subcommittees, with the Committee matching as a whole to discuss major policy issues and to generate new ideas.

Judicial Committee

The Judicial Committee is organized to give student government a means of handling legal and disciplinary problems of students and activities whenever they conflict with the best interests of the Institute community.

Action may be initiated by the Committee on request of the Dean's Office, the Faculty Committee on Discipline, a student activity, or any other interested group.

The Committee is composed of five members. The chairman and the secretary are both elected by the Institute Committee. The other three members of the Committee are representatives of the three living groups.

International Students Council

The International Students Council co-ordinates the various foreign clubs that are present on campus as well as helping foreign students adjust to life at M. I. T. One of the major work areas is to present seminars and projects which concentrate upon attaining summer employment for foreign students.

Public Relations Committee

The Public Relations Committee has the responsibility to publicize in the best manner possible the functions and action of the Institute Committee. This is best accomplished by news releases to The Tech and occasional bulletins. It is intended to foster an interest in student government and activities.

Another activity of PRC is to furnish centralized publicity for Inscomm subcommittees. This involves the design and construction of silk-screen posters and the editing of publicity bulletins.

One of the largest projects undertaken by PRC is working in close connection with the Institute Public Relations Office (PRO) and Dean Wadleigh to improve and transmit the image which MIT projects to the rest of the world, as well as the inwardly conceived image. Work in this area will entail meeting fascinating people, not only from the Institute but also from major newspapers and magazines. Particular operations will be collecting information for and editing the Handbook on Student Government, aiding in sending news releases to hometown newspapers, and uniting with the PRO on special projects.

PRC is in the process of constructing a booklet entitled Yellow Pages of MIT, which will contain valuable information, both temporary and permanent, on who's who and what's what on campus.

The production of the annual Freshman Picture Book and construction and operation of booths for the Alpha Phi Omega Spring Carnival and Activities Midway will also be undertaken by PRC.

Freshman Coordinating Committee

It is the job of the Freshman Coordinating Committee to plan and supervise freshman activities from the end of Rush Week until the time when the Freshman Council and freshman officers are selected. The most important function served during this time is to help with freshman orientation before classes begin. After elections, the Committee provides advice and assistance to the Freshman Council for the planning of Field Day, the Freshman Dance, and other activities. It represents the freshmen before Institute Committee. Members of the Freshman Coordinating Committee are chosen in the Spring; membership is open to members of any class.

Freshman Council gives introduction to student government at Institute



The freshman class swarms its way to victory over the sophomores in the annual Field Day Glove fight.

Opportunities for freshmen in student government are chiefly restricted to work on the Freshman Council, the governing body for the freshman class. The council is composed of thirty-five men, each being elected from his particular section. The elections are open to all freshmen. A president, vice-president, and secretary-treasurer are then elected by the thirty-five council members.

The major function of the Freshman Council is to organize the class for Field Day, the annual rivalry between freshmen and

sophomores. In addition to this, a committee on feedback is appointed so that a student-faculty relationship is maintained and problems are ironed out.

The Council also provides for the sale of Beaver pins, works on the Freshman Quiz Book, and takes various polls to collect student opinion of the freshman courses.

In this manner, freshmen receive an introduction to student government and an opportunity to serve their class.

Inscomm special subcommittees work on temporary projects

Student Center

Hopefully, by the fall of 1965, one of the finest student centers in the country will stand across from the main entrance. The Student Center Committee has been working closely with the faculty and administration on final plans for the building.

The Center will provide many commercial facilities heretofore absent from the campus. There will be a bowling alley, dining and snack facilities, and many other provisions for individual and small group recreation. An entire floor will be devoted to student activities, both providing these groups with expanded facilities and aiding the entire building in its role as a center of activity. At this moment, the Committee is investigating the cost for a much-needed library on the top floor. Later this year, the allocation of space to various student groups will be considered by the Student Center Committee.

Foreign Opportunities

Travel, adventure, and fun will greet the first group of Foreign Opportunities Committee trainees this summer. Twenty-five capable students from nearly every course will work in European countries. Students involved will absorb technical and business experience just as they would at home.

Coordination of this and other opportunities resulted from the concentrated efforts of the newly formed FOC. In addition to initiating the foreign summer job effort, the FOC has worked and continues to work closely with the faculty in laying ground work for a Junior Year Abroad program, which is now being planned.

Two other programs, a freshman seminar in "jungle engineering" and coordination of work camp projects will be undertaken.

Students working with the FOC not only find the work interesting in itself, but also profit from contact with student government leaders and faculty members.

Institute Committee Officers

Position

Undergraduate Association President
Interfraternity Conference Chairman
Interfraternity Conference Representative
Interfraternity Conference Representative
East Campus Representative
Baker House President
Burton House President
Senior House President
Association of Women Students President
Non-Resident Student Association President
Bexley Hall Representative
Activities Council Chairman
Athletic Association President
Senior Class President
Junior Class President
Sophomore Class President

Name

Bill Samuels
Don Shulman
John Groves
Roddy McCleod
John Kassakian
John Berry
Matt Mleziva
Bruce Morrison
Carol Gustafson
Alan Leslie
Bob Waymost
Rusty Epps
Bill Brody
Dick Tsien
Hank Perritt
George Piccagli

Subcommittee Chairmen:

Secretariat
Finance Board
Judicial Committee
Student Committee on Educational Policy
Freshman Coordinating Committee
International Students Council
Public Relations Committee

Jim Wolf
Jim Taylor
Ed Hoffer
Howie Ellis
Dave Rubin
Hossein Askari
Doug Spreng

Executive Committee: Bill Samuels, President; Jim Wolf, Secretary; Jim Taylor, Treasurer; Matt Mleziva, Member-at-Large

MIT AA provides strong leadership; athletics are sponsored on four levels



Athletic Association discusses future plans with the Director of Athletics, Ross Smith. Left to right are: Mr. Smith; Rich Lucy, Bill Brody, President; Dave Carrier; and Fred Souk.

MIT athletics are organized under the joint cooperative leadership of students, faculty and alumni. There are four divisions of this program—physical education classes, intramural sports, intercollegiate sports, and club sports.

The physical education classes are the responsibility of the coaching staff. Particular stress is given to sports activities that will carry over to enjoyment of leisure time in later life.

The intercollegiate program in 18 different sports affords competition for those men interested in developing proficiency through a team effort. MIT takes pride in the accomplishments of the many teams that represent the Institute.

The intramural program is entirely run by the students under the leadership of the Intramural Council. Many dormitory and fraternity men at both the undergraduate and graduate levels participate throughout their Institute careers in the contests afforded by intramural sports.

The club program, under the direction of the Secretary of the Athletic Association, is organized for competition in areas where no intercollegiate counterpart exists.

The Athletic Association is re-

sponsible for the student administration of MIT athletics through the Athletic Association Executive Committee, the team captains, and the intercollegiate and intramural managers. The Athletic Association Executive Committee meets weekly with the Director of Athletics to participate in the planning of the athletic policy connected with the organization and management of the athletic program; overall jurisdiction is the responsibility of the MIT Athletic Board, which is drawn from the AA Executive Committee, the Director of Athletics, faculty and alumni.

To qualify for eventual membership in the Athletic Association, a student must work up to a position of intercollegiate team captain or manager, or intramural manager.

Demonstration of responsibility is the key to head management positions in the AA. As a team manager at MIT, one administers a large portion of the funds budgeted to his sport and is responsible for the proper scheduling of transportation and the effective use and maintenance of equipment.

The leadership of a captain or manager is often the tie that binds the team, coach, and Athletic Association into a successful working unit.

Institute Committee Organization

Class Presidents	Athletic Association	Activities Council	Living Groups
Permanent Subcommittees		Special Subcommittees	
Secretariat		Parents' Weekend and Open House	
Finance Board		Junior Sciences and Humanities Symposium	
Judicial Committee		Foreign Opportunities	
Freshman Coordinating Committee		Student Center	
Student Committee on Educational Policy		Christmas Convocation	
International Students Council			
Public Relations Committee			

Chairmen hold executive committee seats

The chairmen of the Secretariat and Finance Board serve as advisors to the UAP and, together with the UAP and one member selected from the voting members of Inscomm, comprise the Executive Committee. The Executive Committee reviews the work of the subcommittees offering suggestions for improvement as well as creating new projects.

Secretariat seeks Freshmen to fill 20 positions

The annual changeover of officers in the Secretariat has been completed, and applications for the 20 freshman positions will be accepted beginning next week.

The Secretariat has several specific duties: 1) to act as the secretarial arm of Inscomm, 2)

to supervise the use of the undergraduate bulletin boards and the booths in the lobby of Building 10, 3) to check and ratify the constitutions of the different activities, and 4) to run the undergraduate elections. In many other special projects the freshmen will be working with the UAP and the Executive Committee preparing

information to be brought before Inscomm.

The Secretariat also provides opportunities for freshmen to come into close contact with the people directly responsible for many of the undergraduate groups and to participate in many interesting aspects of the undergraduate activity program.

Finance Board distributes over \$50,000 to activities

The Finance Board is the branch of student government responsible for administering the yearly grant assigned by the Institute for the support of student government and student-administered activities. The yearly operat-

ing budget of the Board is in excess of \$50,000.

In addition to this annual operation, the Board has at its disposal a large amount of capital for the purpose of granting both short- and long-term loans to student activities. The Finance Board, to-

gether with the Activities Development Board, approves money for capital expenditures from the invested reserve.

Working with the Board provides valuable experience and background in financial operations and student government.

Activities Newsletter continues its service

Newsletter provides publicity for all ASA activities

The Activities Newsletter, published by the Public Relations Committee in conjunction with Activities Council, has received both favorable and unfavorable feedback. Although the content was both interesting and illuminating, it was found that the newsletter was not widely read at all. It has been proposed that this newsletter be continued in the form of an article in The Tech such as this. The details of this proposition are being worked out at this time. Meanwhile, the following articles serve as an illustration of the material that the Activities Newsletter publishes.

President of TCA describes organization's activities

The present climate of opinion tends to emphasize and idealize the diversified, well-rounded person. If this opinion can be applied to activities at MIT, the Technology Community Association is the ideal activity. TCA is on campus as a service organization to students, and thus must cater to the vast needs of the community. Though some may call me overly melodramatic, I see life at MIT as a society separate and distinct from the "outside, working" world. Therefore, I consider working for an organization like TCA as a most beneficial training ground for what will be encountered in post-college life.

But to be more specific, exactly what kind of experience can be obtained from working in TCA? First, there is the opportunity to learn a little of the "advertising game." This year, TCA plans to sell nearly \$6000 worth of advertising for the Social Beaver and the TCA Blotter. Selling advertisements gives an individual the chance to meet with people, to test his personal salesmanship, and most of all to learn about how business is handled as opposed to how Samuelson says it should be handled.

Next, there is the opportunity to do writing and photography for the Social Beaver. Both of these activities can be either sup-

plements to hobbies a person already has or new challenges.

Also Course 19ers, or anyone else for that matter, might enjoy one of three positions of financial responsibility in the Association. The Treasurer and Ticket Service and Book Exchange Directors can give the interested person much practical experience in the financial end of running a business.

For the artistic and imaginative person, TCA's silk screening facilities can offer challenge and enjoyment. To run such a Publicity Center requires people to know the process, teach it, and supervise its general operation.

Another major division of TCA, which has been increasing in significance and size of late, is the Social Service Division. For the person who is motivated to do Social Service, TCA can provide, among others, such projects as tutoring, settlement house work, and visiting the State Mental Hospital.

TCA also has such services as renting of Baker prints, lending of projectors, and the Freshman Packets, that individuals can reorganize in their own original manner if they feel so inspired. TCA's diversification has positions to satisfy nearly any interested person.

I have dealt only superficially with the jobs one can do in TCA.

More important, though, there is aesthetic satisfaction in serving your community, just as Maxwell's Equation can be pleasing on an aesthetic level (see section 38-9 of the 8.03 text).

John M. Davis, President

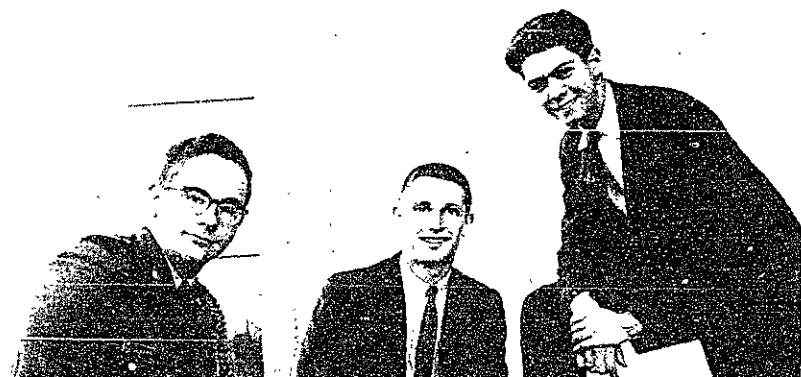
MIT Chess Club

The MIT Chess Club is a very new group, but the results so far indicate that the club will succeed. Basically, it is a place where woodpushers of any degree of skill can spend a pleasant Saturday afternoon wasting time and still feeling that they are doing something organized. Membership is not required for attendance but adds many privileges for the nominal fee.

Club activities include simultaneous exhibitions, an occasional lecture, and all types of tournaments, with prizes. For more casual competition, there is the Club ladder, with a point-ranking system and a set-up for friendly challenge games.

The Club has also formed the MIT Chess Team, which will start regular competition soon; allowing graduates, the team will certainly be one of the strongest in the nation! Any member is eligible to become a team player. Club meetings are held in Room 5-104 every Saturday afternoon starting about 1 pm.

Activities Council legislates



Gerry Clarke, Secretary of Activities Council, President Rusty Epps, and Treasurer John Davis discuss banquet plans for the April 16 dinner meeting.

Activities Council, perhaps the least publicized element of student government, is the legislative body of the Association of Student Activities (ASA), a group which is comprised of all 80 MIT activities.

The entire ASA meets once a semester at the traditional Endicott House Conference while the Council, which is composed of fifteen permanent and five rotating members, meets usually twice a month. Its officers also have duties in other phases of student government. The treasurer is a member of the Finance Board, while the chairman is a voting member of the Institute Committee and a member of the Activities Development Board.

Activities Council is engaged in three major areas of endeavor: 1) The development of the overall activities program, 2) the recognition of new organizations seeking to become members of the ASA, and 3) the arbitration of inter-activity disputes.

The development program has been oriented towards functions

which can assist a small group of activities as well as those which are of benefit to the whole ASA. Seminars conducted this past year dealt with such topics as: publication layouts, photography, legal problems, publicity, and leadership.

Another group ran the Activities Open House. This was the first time a major membership recruiting event had been attempted during the second semester.

Fortunately, during the past year there has been considerable growth, both in depth and breadth, in activities programs. Over a dozen new organizations were accepted into the ASA. Along with seminars and projects conducted by Activities Council, these additions reflect the changing and diversifying character of the Techman.

Another subcommittee has been actively working on the Activities Development Board Awards. This group has been active both in the planning of the awards and in the collecting of data concerning the nominees.

Controlled by light waves

Harrison designs engine for diffraction gratings

By Harvey Deitel

For several years the large ruling engine in the Spectroscopy Laboratory has been the world's source of supply for the largest and most highly precise diffraction gratings, used to separate light into its component wavelengths in giant spectrographs.

This engine, whose unique features were designed by George R. Harrison, recently retired Dean of the School of Science, was the first engine to be controlled by light waves during the ruling process, automatically cancelling out errors as they occurred. Because a tolerance of one millionth of an inch was desired, purely mechanical means of measurement proved to be inadequate.

Dr. Harrison devised a method of employing Michelson interferometers to keep track of the translation of the grating during its travel under the ruling diamond. Harrison worked for several years with this innovation, but was unable to produce any fine gratings. It was soon discovered that the new engine was failing because no provisions had been made to handle minute rotations of the grating about a vertical axis.

Modified engine

Immediately, work was begun on a modified engine which would be capable of controlling both translational and rotational motions of the grating. The results of these efforts were responsible for the recent production of two 10-inch gratings of unequalled quality, under the supervision of Dean Harrison and Stephen W. Thompson, Assistant Engineer.

Dr. Harrison came to MIT from Stanford University in 1930, and served as Dean of the School of Science from 1942 until his retirement early this year. During his thirty-four years at MIT, he has worked on the development of precision diffraction gratings, and the two main problems associated with their production.

The first problem is that the longer a grating can be made, the greater is the intensity of the observed light. Second, the more exact the spacing of the lines, the greater is the purity of the observed spectra.

Because of the very delicate nature of the project, it was necessary to house the ruling engine in a vibration-free environment. For this reason, the Spectroscopy Laboratory was surrounded by walls four feet thick, composed of the best possible insulating materials.

Rotation detection

Ultimately there is one more major improvement which can be built into the engine. This would be the capability of the machine to detect and correct minute rotations of the grating about a horizontal axis.

Dr. Harrison hopes to have a new version of the ruling engine ready in the future which will make use of triple interferometers and thus account for and correct errors within the desired precision of one millionth of an inch. With this new engine he feels that it will be possible to produce eighteen inch gratings, of greater quality than any gratings yet produced.

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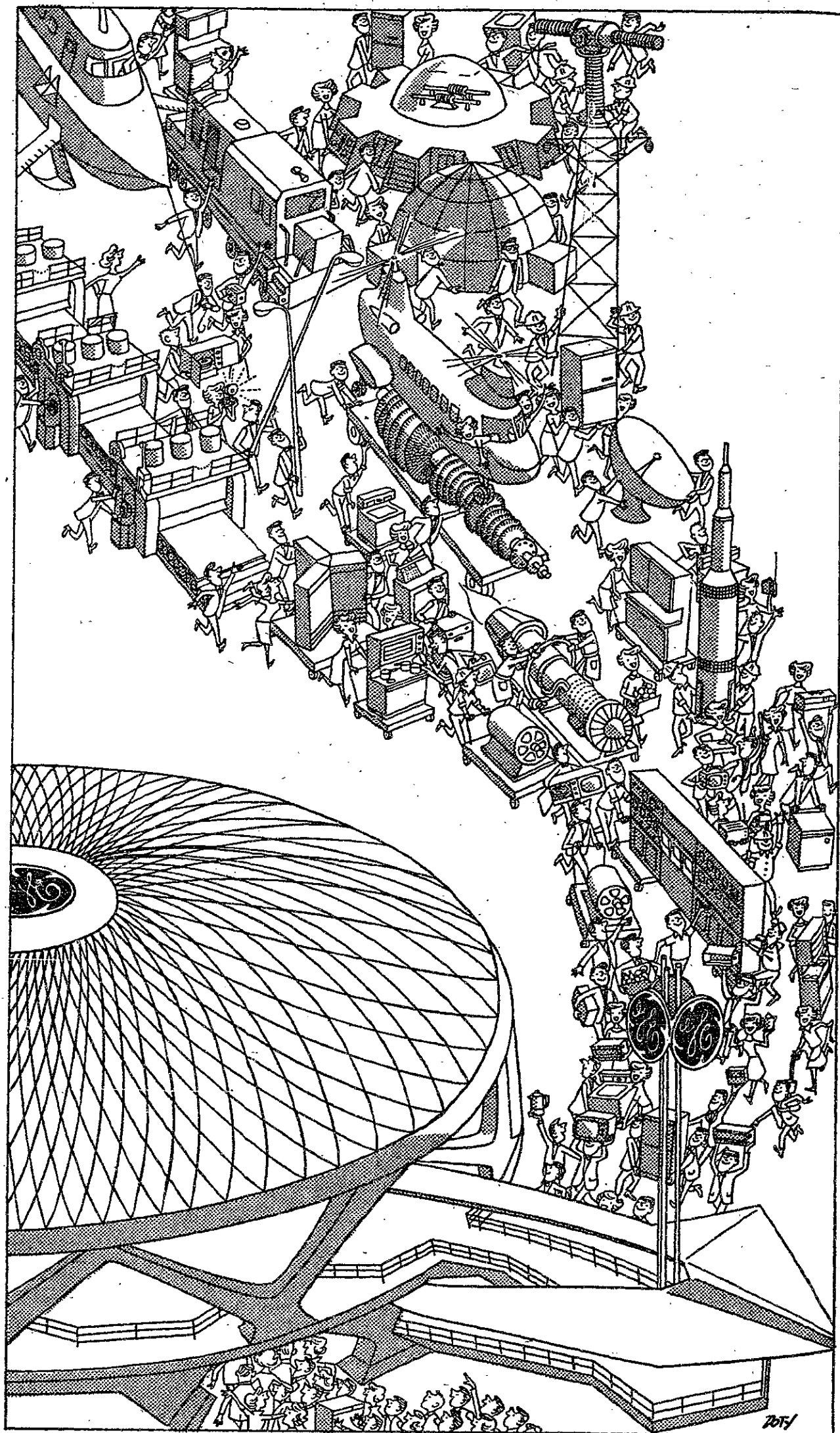
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The "Progress Corps" comes to the Fair

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Duplicate MIT delegations vied for Young Republicans recognition

The Young Republicans Club participated in the Annual Meeting of the Massachusetts Council of Young Republican Clubs Saturday, April 11, in Cambridge.

Brought before the convention in the Credentials Committee report was the problem of two slates of delegates and alternates which had been submitted by the MIT group.

Due to the postponement of the meeting from the previous week, MIT's vacation, a second list of delegates had been submitted by the club. Those on the first list contended that they had been eliminated because they disagreed with the president Charles Daney '67, on his choice of candidates.

Daney claimed that the second list was valid, citing as the source of the objection the club's former treasurer, listed on the first set of delegates, who had been academically disqualified.

The convention vote on the issue confirmed the Credentials Committee, which had accredited the original list.

In the voting for State Chairman, the three on the original list provided the winning margin for Richard Mastrangelo, as the vote was 122-119.

Methane atmosphere

Arcturians problem for MIT, Inc.

(Continued from Page 2)

strange birds, with a nose like a beak. Besides two highly-sensitive eyes that can see infrared and ultraviolet as well as ordinary light, a Methanian has a third eye in the middle of his forehead that gives him X-ray vision.

Limited telepathy

From Mr. Wick's report we learn further that the Methanians "have a limited amount of telepathic ability but seem to use this form of communication only under duress. In the ESP tests we thought we had discovered a

race with exceptional talent but later found out that their high, almost perfect, scoring was due to the X-ray-like vision of the third eye.

"The young are born in eggs and the eggs are carried around in skin pockets or pouches similar to those of the now extinct Terranian Penguin until the egg hatches. Both male and female take turns in the hatching process.

"The young grow rapidly at first and are ready to take care of themselves in about twenty Terranian years. They seldom leave home, however, before physical maturity is reached, 49.4 Terranian years.

"The Arcturian normal body temperature is -40. C and their pulse rate is five times per minute. As a result they are very slow moving and frequently walk using one or both arms as a cane or pair of crutches.

Slow walk

"Their normal walking pace is about one-fourth mile per hour, but if pressed they can go almost eight times as fast for very short periods. Even with HIG units we don't travel much faster than they do. This slow pace does not seem to bother them since their whole system is geared to it. Their stimulus response time is about two seconds.

"Their auditory, vocal and visual range is extremely large. They can hear sounds with frequencies as low as 1/1000 cycle/second up to 50,000 cycles/second. Their vocal range goes from 1/50 to 25,000 cycles/second and their visual range, (as already noted) extends from the infrared up through the ultraviolet.

The Methanians use atomic power to generate electricity, but know nothing of electronics. Since a ten-pound object on Terra weighs 110 pounds on Arcturus IV, steel and iron are too heavy for wide use in building and manufacturing. Aluminum, magnesium, titanium and the plastics are

therefore used for these purposes. Lithium is scarce but greatly valued because it is so light.

"As you might expect they are very stable emotionally, very slow to anger and with tremendous patience measured by our standards. They are monogamous and divorce is not known.

"The Methanians are extremely gregarious and even the farmers live in little centralized communities. Their religion is monotheistic (and without a devil) and their music, literature and art is well advanced."

Backward culture

In general, the Methanian civilization is described as of a "somewhat backward culture—early twentieth century America."

In drawing up this case study, the late Professor John E. Arnold made every effort to make everything as realistic and consistent as possible. All information in the file is on specially prepared stationery and report forms, stamped and handled in the best businesslike manner.

"Strictly confidential"

The material is "strictly confidential;" there is a very explicit warning on the very first page that "any person not cleared who reads further in this file does so at their own risk and is subject to the extreme penalty of the law."

The reports and letters in the file try to cover, briefly most of the important phases of the life and culture of the Methanians and the physical features of their planet.

"However, once the students began designing consumer products suitable for sale by MIT, Inc. to the Methanians, new information was frequently needed; it became part of the students' job to provide this information consistent with that already given.

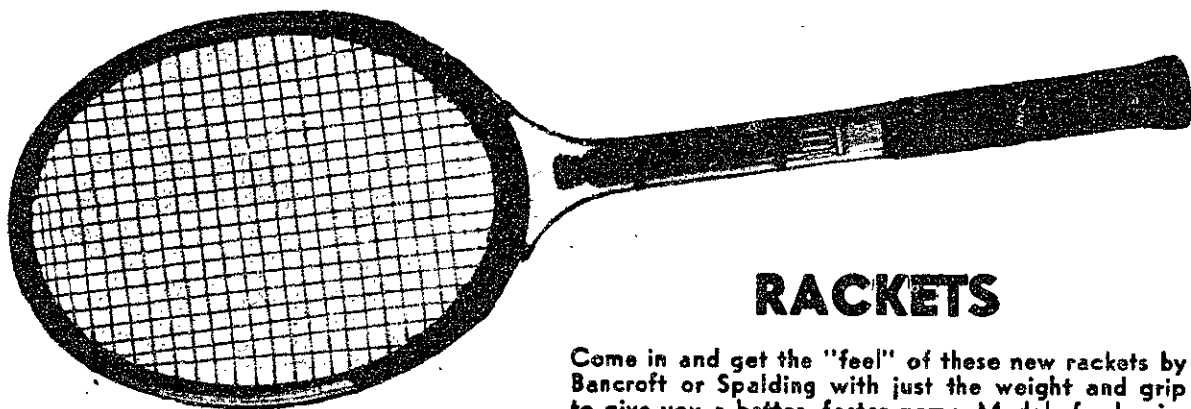
For the students' benefit the products were to be manufactured using Twentieth Century technology and materials. Here rigid engineering standards take over. Designing for the Methanians forced the students to think about a host of physical factors normally taken for granted when one thinks about the human race.

For the 2951 world it was useless to copy the conventional and accepted. The student was compelled to use his imagination and think creatively.

Future articles will deal with some of the solutions to the Arcturus problem, as well as other projects.

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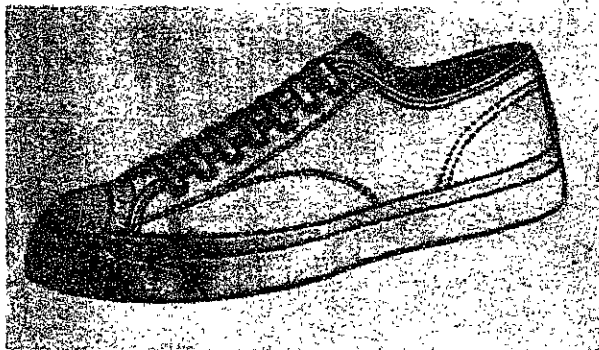
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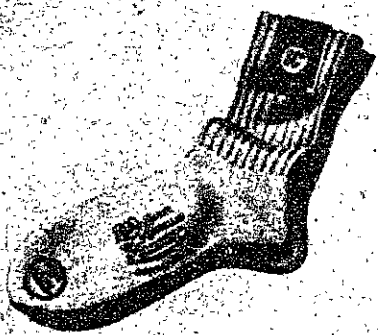
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College World

'I have a warrant for your arrest,' Metamorphosis leads to massive riot

"Whatsa matter, buddy? Don'cha see da lights?" This might be the typical reaction of the typical Cambridge traffic cop to the way the typical Techman crosses Mass. Ave. It was also the typical reaction of Columbus patrolmen to the pedestrian habits of Ohio State students—until recently.

But then Metamorphosis hit Columbus. The reaction changed to: "I have a warrant for your arrest for jaywalking. Get your coat and come with me." The first to learn of this new policy was a 19-year-old sorority girl who had neglected to pay a jaywalking ticket.

She was arrested at her house one evening, brought to the Columbus police station, subjected to an "unreasonable" search for concealed articles, and thrown into a dark cell where she was held for an hour and a half until \$13 bond was posted. In addition,

she was denied permission to use the telephone until she had spent a considerable time in the cell.

Less than 36 hours later, the story of her arrest and detention appeared in the Ohio State Lantern. A police sergeant told The Lantern: "Anyone who doesn't pay the fine (for jaywalking) will be arrested as soon . . . as possible. They went into the sorority house after your girl. They would have gone into a class for her if necessary."

The story does not end here. Later that afternoon some 5,000 students poured into the streets to start a wild five-hour demonstration protesting the treatment of the arrested girl. The result was not only one of the largest traffic jams in Columbus history, but also over \$10,000 property damage.

OSU President Novice G. Fawcett accused The Lantern of helping to instigate the riot and of overplaying the story. He ordered an investigation to determine the responsibility of the individuals and of The Lantern. He did not criticize the police action.

The faculty of OSU's School of Journalism openly disagreed with

Fawcett. The instructors say the Lantern did a professional job and should be commended for disclosing an important incident. They deny that the Lantern caused the riot.

On the other hand, both of the Columbus daily newspapers backed Fawcett and accused The Lantern of yellow journalism.

To this charge, the Lantern's faculty advisor answered: "We were reporting an attack on individual human rights. This is the soul of a newspaper. We try to teach our kids that a newspaper is more than a mere bulletin board."

The director of the School of Journalism said of the coverage in one of the city's newspapers: "The reporter who handled the story of this arrest would have flunked our beginning journalism course. He missed a good story by skimming the surface. This is the kind of sloppy newspapering that we hold out as a bad example to our students."

With all the attention on the reporting, however, no one appears to be investigating police policy with respect to jaywalking arrests.

Two economics societies merge; Form remaining American society

Two economics honor societies, American Economist, to provide Omicron Delta Gamma and Omicron Chi Epsilon, have merged for publication of graduate and undergraduate papers, and to form what is now the only American honor society in the field on economics. The new society is named Omicron Delta Epsilon.

The society's headquarters are on the campus of the University of Southern California. It publishes a bi-annual journal, The

for publication of graduate and undergraduate papers, and to communicate current developments to students. MIT's Prof. Evsey D. Domar is a member of the editorial board.

The society has a membership of about 3500. 10 to 15 percent of American economics students qualify for membership.

NROTC midshipmen take field trip for aviation training and indoctrination

Ten NROTC Midshipmen, Faculty Guest M. Bryce Leggett, Associate Director of Admissions, and Escort Officer Lieutenant Paul E. Guay, USN, Assistant Professor of Naval Science, attended an Aviation Indoctrination Field Trip to the Naval Advanced Air Training Station at Corpus Christi, Texas. They were joined by a similar contingent from Harvard and two Midshipmen from Brown at the Naval Air Station, South Weymouth.

The trip, an annual event, is

made to bring ROTC Midshipmen into direct contact with the operating Navy and to indoctrinate them in the training and capabilities of Naval Aviators. There are two days of indoctrination.

The facilities of the base were available to the visitors. These include the Navy Exchange, Officer's Club, and movie theater. A special attraction was a dance sponsored by the Naval Air Station for the Midshipmen.

Garage on Vassar St. will hold 400 autos

The parking garage on Vassar Street is scheduled for completion on April 27. It will hold over 400 cars on five levels, plus basement. There will be a pedestrian bridge leading from the third floor parking level to Albany Street at the end of the Magnet Lab.

The new garage is located near the main campus, but will not result in significantly more parking spaces because of new construction in the area.

This second garage is different from the first in that it is constructed with pre-cast concrete panels. The parking areas are flat and there are two-way traffic ramps at either end of the building.

Carlton N. Groff of Parking Development Company, Boston was architect for the building.

Pi Tau Sigma elects new set of officers

Spring term officers for the Pi Kappa Chapter of Pi Tau Sigma mechanical engineering honorary were elected recently.

The new leaders are: Frank Berkman '64, President; Mike Godfrey '64, Vice-president; Steve Femino '64, Recording Secretary; John Prokopy '64, Corresponding Secretary, and William Ribich '64, Treasurer.

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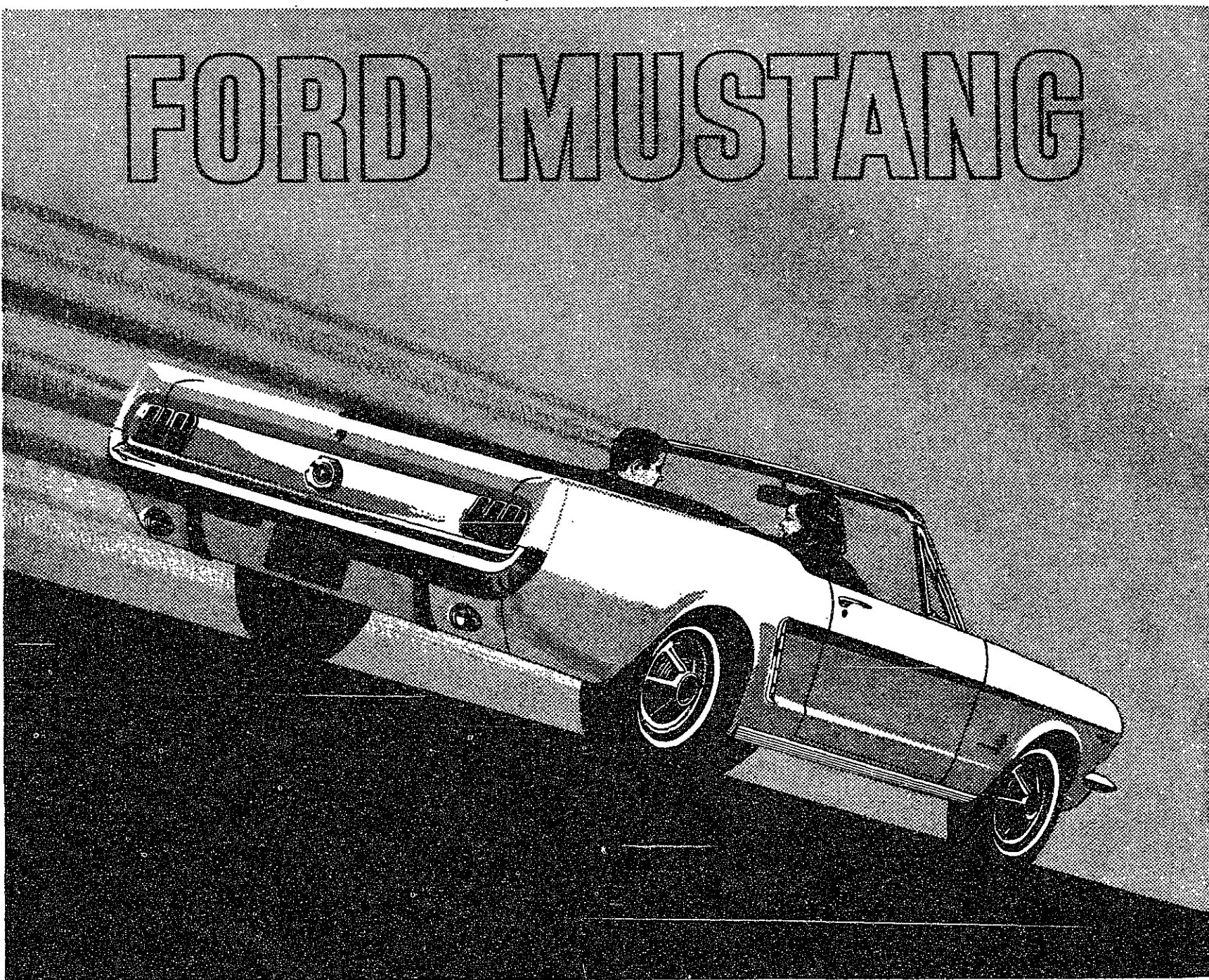
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It took a lot of hard work and many people with creativity, imagination and drive to get the "grrrr" to town. All kinds of skills were involved: styling, research, manufacturing, marketing, product planning and many others were needed and will be needed in the future. For the Mustang is merely the latest expression of Ford Motor Company's ability to anticipate modern tastes in driving.

In Ford Motor Company's search to find better ways to do the unexpected, there is the constant need to enlist people with a flair for the future. This year, approximately 1,000 college graduates in all areas of study and with all kinds of majors can enjoy the challenge of creating new automotive marketing and manufacturing concepts. If you're interested in joining a leader in a growing industry, check with your Placement Office or write us. Maybe you can help "tame" the next Mustang.

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Slezak describes acting experience to 400 people in Kresge lecture

After a warning that he would speak under false pretenses since a lecture is defined as a "formal, methodical discourse tended to instruct", Walter Slezak, actor, singer, author, and raconteur, told a Kresge audience of 400 people of his television, stage, and movie experiences. The lecture, entitled "Show Business is No Business," was presented by the Lecture Series Committee on Wednesday, April 8.

Speaking of television, Slezak recalled some of his memories of the early years when "idiot cards would be accidentally held upside down and where zippers would be stuck and pants mixed up in a fast change scene." Now television has degenerated into a world of video-tape, laugh machines, fear of the sponsor's opinion and the Nielson rating.

"Never invest in a play except for a tax loss" since few investments are more speculative and most plays put in a clause in the contract saying "preproduction costs yet undetermined", thereby allowing the producer to charge more than the original agreement. Once the play has gone through its development cycle of book, copy, audition, casting, rehearsal, trial run, and revision, it comes to Broadway for its debut. After the final curtain, the actors go to Sardi's to await the reviews and are met with a wave of congratu-

lations. Slezak's method "for being overwhelmed" at this barrage is presented in three distinct stages. "At first one looks innocently about, seeing who is being applauded; then, realizing that the applause is near by, he expresses modestly that the clapping could not be for him. Finally after a small pause, he graciously acknowledges the accolade."

Hollywood enjoyed its best years in the forties before the advent of television. Contracts were exchanged frequently and without regard for the actor. Slezak told that "once during a golf match between the needs of two studios, I lost a job due to a missed putt on the seventh hole."

Portraits to be taken for Technique 1965

Portraits of all members of the class of 1965 for Technique will be taken this spring in order to upgrade the quality of the yearbook, according to Paul Hoff, editor-in-chief.

Students should sign up in the lobby of Building 10 by April 24. The portraits will be taken in the Walker Music Room (50-201) from April 20 through May 1 by Carol Studios.

There will be a sitting fee of \$3. Options for Technique 1965 will be available at the same time for \$3.

Special arrangements will be made for co-op students who are away from the Institute this semester.

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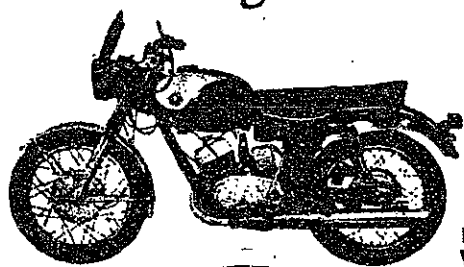
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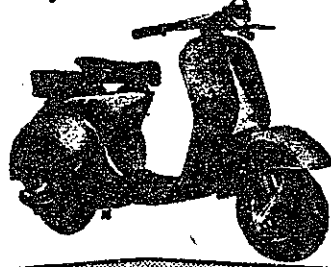
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Wood Fifth residents cry: "Exterminator in house?"



"Wee, sleekit, cow'rin', tim'rous beastie,
O what a panic's in thy breastie!
Thou need na start awa sae hasty,
Wi' bickering brattle!
I wad be laith to rin an' chase thee
Wi' murd'ring pattle!"

A merciful sentiment, similar to Burns' above, was expressed by three inhabitants of fifth-floor Wood (East Campus) to this rodent visitor after he dutifully allowed a photograph: he was given his freedom outside.

New developments:

Magnetic core faster; more reliable memory

(Continued from Page 1)
plications on which Dr. Forrester and his associates were working.

In that year, Forrester conceived a memory system with magnetic cores capable of bi-stable operation through the use of materials having nearly square hysteresis loops, and electrically exciting them by coincident currents. The cores were to be toroidal in form, and each was to have a magnetic flux which could be set to one direction or the other around the core.

Each core would have a number of wires running through it. Since the direction of flux could be altered only by passing pulses of current through two wires simultaneously, a single pulse would cause no change. Each core could then store a single "bit" or binary digit of information.

Compact arrangement

The cores were to be arranged in columns and rows to form planes, and the planes were to be arranged in a three-dimensional stack, so that a large number of cores could be arranged in a small space.

This system of cores was incorporated into the computers at the MIT Digital Computer Laboratory in the early 1950's, when the Laboratory consolidated with a group of others to become the MIT Lincoln Laboratories. The first core system was successfully operated in the Whirlwind computer.

Further development has yielded ceramic cores of small size and fast operating speed. Some cores are now less than one-fiftieth of one inch in diameter.

Almost every large computer now uses the core memory. So

fast has been the expansion of the computer industry that the demand for cores has exceeded all estimates, and the number of cores now being made runs into billions per year.

Professor Jay W. Forrester has been a member of the faculty of MIT's Alfred P. Sloan School of

Industrial Management since 1956. He is applying his earlier work in digital computers and servomechanisms to developing the field of "industrial dynamics," a new approach to the design of corporate policy based on the feedback system character of the industrial enterprise.

Gilchrist cites two gifts of America to Angola: food for refugees and bombs that drove them out

(Continued from Page 1)
foreign vested interests which they represent. These things will have to be done before independence and freedom become real in Africa."

The ambassador concluded, "If these things are to come about in Africa, then the dialog for African freedom must begin among our college students today, for you will be the leaders of tomorrow."

Dr. Gilchrist

The next speaker was Dr. Ian Gilchrist, volunteer doctor for Emergency Relief to Angola (ERA). Dr. Gilchrist is one of three M.D.'s serving over one million Angolan refugees in the Congo. He traced the history of Angola from the establishment of Portuguese trading missions there in 1486 to the present.

He described Portuguese policy toward the Angolans throughout the history of the colony. For many years Africans were sold into slavery from Angola. As other African colonies developed and moved toward independence, Angola was flooded with settlers from Portugal. The climate of Angola is mild and adapted to white settlement, consequently large coffee plantations developed.

Revolt of 1961

The policy of white settlement ended on March 14, 1961, when

the colony erupted in a bloody revolt of plantation workers. The uprising was suppressed by Portuguese peasants after much killing. Since then Portuguese policy has been one of mass extermination of the Africans, according to Dr. Gilchrist.

Over one million refugees have fled Angola to the Congo since the revolt. Nearly one fifth of the population is in exile today, and more are leaving. In the last three weeks, fifteen thousand Angolans left the colony.

The International Red Cross began relief work among the refugees, but was forced to abandon the mission under pressure from Portugal, said Dr. Gilchrist. Food supplies have been distributed marked "Gift of the American People." Ironically, the bombs dropped on Angolan villages are marked "Made in America."

Dr. Gilchrist stressed that the problem is America's as well as the Angolans'. He appealed for funds with which to care for the refugees and finance an army of liberation, which is being trained by the government of Angola in exile.

A third speaker, Mr. Mohammed Ali (formerly Cassius Marcellus Clay), failed to attend. He was expected to speak on "The Negro and Sports" and give a recital in poetry.

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1 p.m. — 50c

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"To Hear My Banjo Play" with
Pete Seeger

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3 p.m. — 50c

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Comedy divers, champ swimmers to perform at Aqua Capers-'64

Aqua Capers-'64, a water show featuring top comedy diving teams and NCAA national champion swimmers, will be presented this Friday at the Alumni Pool. The MIT Swim Club is sponsoring the event to help raise money for the Olympic Fund, which will be used to pay for the expenses for this summer's Olympics in Tokyo.

The nationally-famed comedy diving teams of Kimball and Billingsley, Edwards and Goodhead, and Vic Zoble will be featured in the two-hour program. Highlighting the show will be an appearance by Yale swimmers Steve Clark, Roger Goettche, Dale Keiffer, and Mike Austin, members of Yale's national second-place medley relay team.

Two shows will be presented, one at 6:30 and one at 8:30. A limited amount of tickets will be available in Building 10 at \$1.50 for the 6:30 and \$2.00 for the 8:30 show.

Golf squad swamped by Trinity and Williams; Shoemaker only winner; season record now 1-7

The varsity golf squad lost to both Trinity and Williams in a triangular match at Williams last Thursday. Trinity shut out MIT by a 7-0 count while Williams won over Tech by a 6-1 tally. The loss brings the squad's record to a disappointing 1-7.

The sole victory in the matches for MIT came from Dick Shoemaker '65 as he won 4 and 3 over his Williams opponent. Top medal scorers for MIT were scored by Harry Barnes '66 and Peter Lupitz '65 as they tied for honors with 80's.



An example of some of the excellent diving techniques to be demonstrated at Aqua Capers-'64 this Friday at Alumni Pool.

Limited tickets will be on sale in Building 10 this week.

These scores really tended to be disheartening as they were two shots over the average score of 78 shot by Trinity. Williams' average medal score also proved to be lower than the scores of Tech's top medalists.

The third section of the triangular meet saw Trinity and Williams going into extra holes to decide the winner, and they were still playing when the Tech golfers left for Cambridge.

The squad goes against Harvard this Thursday on the Harvard course in hopes of improving the season record.

How They Did

Baseball
Worcester Tech 4 — MIT (V) 1
Worcester Tech 3 — MIT (V) 0
Milton Academy 6 — MIT (F) 5
New Prep School 21 — MIT (F) 7

Heavyweight Crew
MIT (V) 10:38.4 —
Columbia 10:48.7
MIT (JV) 10:38.7 —
Columbia 11:00.3
MIT (3rd V) 6:31.6 —
Columbia 6:43.2
Columbia 10:15.3 —
MIT (1st F) 10:25.3

Prof. Thomas Mahoney appointed crusade chairman for American Cancer Society

Dr. Thomas H. D. Mahoney, chairman of the history section, has been appointed chairman of the Special Gifts Committee for the April Crusade of the American Cancer Society.

Prof. Mahoney is a member of the Cambridge City Council.

He has served on the Cambridge School Committee, the Cambridge Board of Public Libraries Trustees, the Cambridge Chapter of the American Red Cross, and the Corporation of the Mount Auburn Hospital.

MIT (2nd F) 6:40.5 —
Columbia 6:48.2

Lightweight Crew
Durand Cup
MIT (V) over Dartmouth and Yale by 2 1/2 lengths
MIT (JV) 7:36.8 — Dartmouth 7:42.8 — Yale 7:46.0
MIT (2nd F) over Dartmouth and Yale by 1 1/2 lengths
MIT (2nd F) over Dartmouth and Yale by 1 1/2 seconds

Golf
Williams 6 — MIT (V) 1
Trinity 7 — MIT (V) 0

Lacrosse
Dean Junior College 15 — MIT (F) 6
Harvard 6 — MIT (F) 0

Sculling
MIT (V) 1st in Owen Trophy
MIT (V) 1st in Oberg Trophy

Tennis
MIT (V) 9 — Brandeis 0
Navy (V) 7 — MIT (V) 2
Harvard 9 — MIT (F) 0

Track
MIT (V) 103 — Brandeis 31
MIT (V) 100 — Tufts 44

Dormies finish high

IM table tennis season reaches finals

by Dick Minnick

The Intramural Table Tennis season was completed last week. The standings printed below are the official season results, with the teams eligible for the finals indicated.

The dorms finished strongly, as was expected. Burton House will have their A, B, and C teams in the finals. The "A" team appears to be the strongest and should be a contender for the championship. Four of the five Baker House teams qualified and should finish well. Bexley Hall "A," East Campus "B," and Senior House will have the remaining dormitory teams in the finals.

Among the various clubs, Chinese Students were the only ones to qualify for the finals. Both of their teams look very good and should do well.

The biggest surprise of the season is the strength shown by two fraternities, Alpha Epsilon Pi and Tau Epsilon Phi. AEPi "A" and "C" are both undefeated while the "B" team finished with a 3-1 record which still was enough for a final playoff position. AEPi "A" was undefeated in the Major Division playing against some strong dorm teams. This team could score a big upset in the finals. The two teams entered by Tau Epsilon Phi both won their leagues, a very good showing for a fraternity. The fraternities will also be represented by Sigma Phi

Epsilon, Lambda Chi Alpha, Zeta Beta Tau, and Alpha Tau Omega.

MAJOR DIVISION LEAGUE I

*Burton "A" 4
*Bexley Hall "A" 1
*Baker "D" 1
*Senior House "B" 0
*Phi Delta Theta 0

LEAGUE II

*Chinese Students "A" 4
*Burton "B" 2
*Baker "B" 2
*Baker "C" 2
*Sigma Phi Epsilon 1
*Bexley Hall "B" 0

LEAGUE III

*Burton "C" 3
*Baker "B" 2
*Senior House "A" 2
*East Campus "A" 1
*Sigma Alpha Mu 0

LEAGUE IV

*Alpha Epsilon Phi "A" 4
*Baker "A" 3
*Graduate House 2
*East Campus "B" 1
*Phi Kappa Theta 0

MINOR DIVISION LEAGUE V

*Tau Epsilon Phi "A" 4
*Alpha Epsilon Phi "B" 2
*Burton "D" 2
*Delta Kappa Epsilon 0
*Off Campus Group 0

LEAGUE VI

*Chinese Students "B" 3
*Tau Epsilon Phi "B" 3
*Baker "E" 1
*Delta Upsilon 0
*Phi Mu Delta 0

LEAGUE VII

*Alpha Epsilon Phi "C" 4
*Alpha Tau Omega 3
*Sigma Chi 0
*Kappa Sigma 0
*Walker Student Staff 0

LEAGUE VIII

*Lambda Chi Alpha 3
*Zeta Beta Tau 3
*Theta Chi 2
*Club La'ino 0
*Phi Sigma Kappa 0

*Teams Eligible for Final Playoffs.
*1 Tie. Playoff for Final Playoff Position.

All Sports Week

Date	Sports	Opponent	Time (pm)
Wednesday, April 22	Baseball (V)	Harvard	2:30
	Lacrosse (V)	Massachusetts	3:00
	Lacrosse (F)	Phillips Andover	3:00
Thursday, April 23	Tennis (V)	Bowdoin	3:00
Friday, April 24	Tennis (V)	Colby	3:00
(Beginning of Parent's Weekend)	Also—Aquacapers		6:30 & 8:30
Saturday, April 25	Heavyweight Crew	Yale	
	Lightweight Crew	Dartmouth, Harvard, (Biglin Cup)	
	Track (V&F)	Williams	12:30
	Tennis (V&F)	Wesleyan	2:00

Parties and vandalism sources of complaint by Back Bay realtors

Four Back Bay real estate dealers and owners have complained to President J. A. Stratton as well as to heads of the other colleges in the area. In similarly phrased letters, the four asserted that the open parties, noise, vandalism, car racing and drinking of students and their friends were now on a seasonal increase and threatened to endanger the "comfortable residential neighborhood" status of Back Bay.

The MIT Office of the Dean of Student Affairs has contacted all the letter writers. Dean Kenneth R. Wadleigh has indicated that such letters were sent to many colleges and that the extent of MIT student's involvement in provoking the complaints was believed small.

Copies of the letters were sent by Dean of Residence Frederick G. Fassett to the president of each fraternity. Speaking briefly at a recent Interfraternity Conference meeting, Dean Fassett noted that "forewarned is forearmed," but indicated that no direct further action was now planned on the matter.

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ELENA VICTORIA ORTIZ
RHODEN SMITH
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Netmen beat Brandeis, lose to Navy Frosh sports
to bring season's record to 5-4

The varsity tennis squad split a pair of matches for the second week in a row last week. They managed to keep their record above .500 at 5-4 by swamping Brandeis 9-0 and losing to Navy 7-2.

MIT handed Brandeis a sound 9-0 thrashing Monday as the netmen nearly finished the match in straight sets. Jack Moter '64 downed Dave Gerstel 6-2, 6-0, while Marty Ormond '64 defeated previously unbeaten Bert Strug 6-4, 6-0. Other singles winners were Gio Franzi '64, Ken Cooney '65, Bob Blumberg '64 and Dick Thruber '66.

In the doubles, Moter and Franzi at number 1, and number 2

Blumberg and Thruber both won in straight sets. Mike Long '65 and Bill Petrick '65 won 6-1, 3-6, 6-4.

In the Navy match played Friday, Tech went down by a 7-2 score, even though things looked good on the first two courts at the beginning. Captain Moter and number 2 man Ormond both took the first set from their Midshipmen opponents.

Bob Blumberg, however, pulled out the only Tech victory in the singles, beating Bob Teall 8-6, 9-7. In doubles, Moter and Franzi lost 12-3, while Petrick and Blumberg beat Beall Teall 12-8. Ormond and Thruber succumbed at number 3 12-7.

by Tom Compton

Coach Mike Greata's first freshman lightweight boat was never challenged by Dartmouth or Yale as it came home 1½ lengths ahead of second place Yale. The second frosh, however, provided the most exciting race of the day, and probably the most ulcers for Mike, 1963 varsity bowman now in his first year of coaching, as they inched by their opponents in the last 20 strokes of the race to win by 1½ seconds.

That race will probably be the theme of next week's Biglin Bowl race, again on the Charles, when the lights take on Dartmouth and

Light boats beat Yale and Dartmouth

powerful Harvard. With eight sophomores in their varsity eight, the Crimson is a much improved crew over last year, and will be fighting to regain possession of the cup from MIT.

Heavyweight Crew

The first frosh rowed within a couple of seats of Columbia for the first mile of their two mile race. Both crews settled to 30 after the start, but with a mile to go, Columbia took the stroke up to 38 for ten strokes. They gained half a length as a result and continued to pull away for the rest of the race. Tech's time of 10:25.3 was ten seconds slower than the Lions' time to the wire.

The MIT second frosh heavies rowed a Henley against the Columbians, and, after rowing the body at 29, the engineers took a 20 stroke sprint to finish 2 lengths in front of Columbia. MIT's time was 6:40.5.

Baseball

Seven is the magic number this week. That is the inning in which the baseball team lost both games. Milton Academy won 6-5 and New Preparatory School ran away with it 21-7.

Paul Hoxie pitched Wednesday against Milton. Mike Ryba had three hits and Erik Jensen hit a double to give the Engineers a 5-4 margin going into the seventh and final inning.

That seventh inning was disastrous. Tech made many errors. This resulted in Milton's scoring two more runs. Four of the five runs Milton scored were unearned.

Rick Pappenhausen pitched Saturday. By the sixth inning MIT had built up a 5-3 lead. Jensen had a double again and Ron Kadomiya tripled. MIT was also bunting good.

The sixth inning was the turning point. Pappenhausen got into trouble by walking a couple, allowing three hits and hitting a couple of batters. He was relieved and they escaped the inning. In the next three innings, Tech used four pitchers and had 8 runs scored on them in the seventh, 6 in the eighth, and 4 more in the ninth.

Lacrosse

The lacrosse team lost both games last week. Dean Junior College beat them 15-6 on Thursday and Harvard won 6-0 on Saturday.

The Dean game was actually

closer than the score suggests. In the last three quarters MIT was only outscored 7-6. But Dean had an eight point first quarter.

The defense was unorganized the first quarter but it improved greatly by the second. Neal Gilman scored first for the Engineers in the second period. He later scored another, Gilman, George Wheeler and Von Waldburg all scored twice.

At one point the Techmen really showed their stuff. All three midfielders were out on penalties leaving only four men to defend the goal. But four were enough — Dean couldn't score a goal.

MIT was up against a superior Harvard team on Saturday. Many of Harvard's players have high school experience whereas MIT has only one.

Harvard controlled the ball and passed well. Tech had some poor passes and let the ball get loose. Harvard picked up a few loose balls and ran straight to the goal.

Tennis

The match with Governor Dummer Academy Wednesday was cancelled. The Harvard match Saturday was 9-0, Harvard. The scores for the singles matches were Eric Coe 6-0, 6-2, John Saint Peter 6-2, 6-2, Dick Bails 6-3, 8-6, Mike Gelberg, 6-4, 6-3, Dick Nielsen and Rick Heldt also lost.

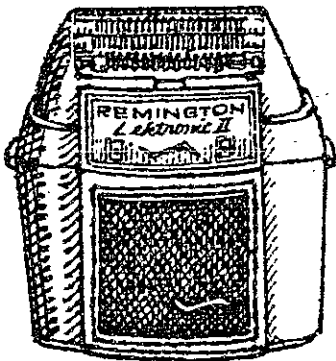
IM softball play shows domination by offenses

The intramural softball season had its second full day of action on Sunday, April 12. Strong offense and weak defense seemed to characterize many of the games as scores became reminiscent of little league tallies.

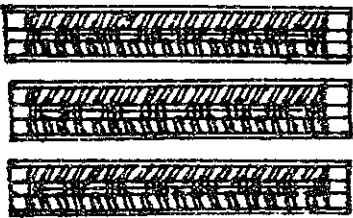
Powerful hitting carried Phi Gamma Delta past Baker D 23-14, and Chinese Student Club over Theta Xi 29-16. Graduate House Dining Staff coupled excellent offense and one of the few good defenses to whitewash Baker A by a 15-0 count. In another high-scoring contest Student House swamped Kappa Sigma 19-9.

Other action saw Sigma Phi Epsilon outslug Phi Sigma Kappa by a 15-13 score as Baker C won over Delta Kappa Epsilon 8-4. Nuclear Engineering won by forfeit over Phi Beta Epsilon, and Tau Epsilon Phi edged out Sigma Alpha Epsilon 10-7.

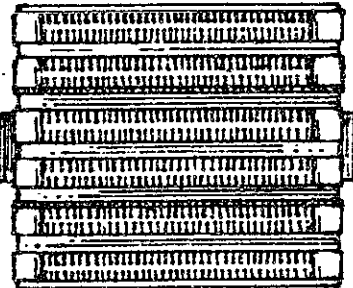
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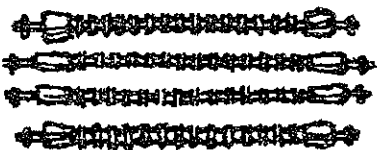
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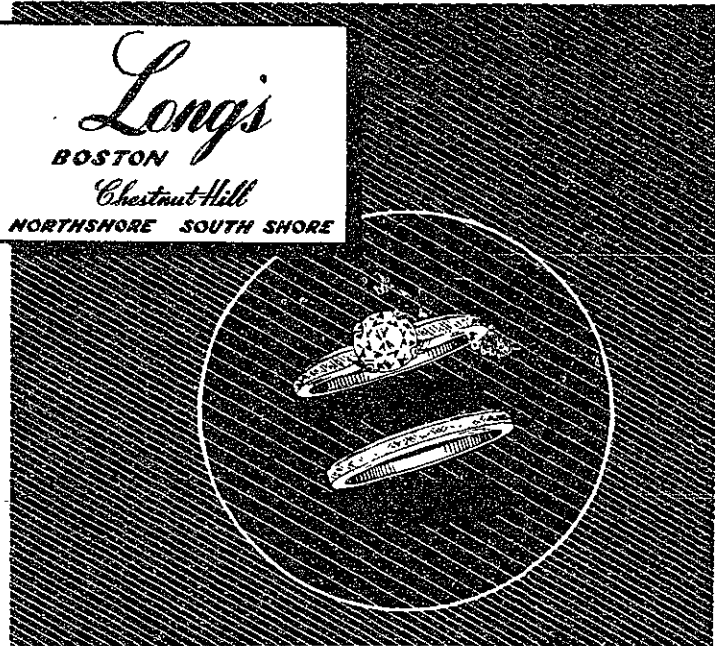
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Tromp Dartmouth, Yale in four Charles races

By PETE STAECKER
The lightweight crews started their season by sweeping four races against Dartmouth and Yale on the windy Charles last Saturday. Rowing conditions were ini-

Riflemen swamp league champs, Northeastern, in two straight matches

By Karl Frederick
The MIT gunners wiped out Greater Boston Collegiate Rifle League champions, Northeastern University, in regular league competition at the Tech range Thursday night, 1297-1295, and again at the GBCRL indoor tournament on Saturday, 1316-1300 (including a 7-point handicap for MIT).

Highest scores in Thursday's match were turned in by Joe Boling '64, 270; Zach Abrams '65, 259; Dave Hamada '65, 257; Jim Bridgeman '65, 257; and Karl Frederick '65, 254.

Saturday's 1316 took first place in a field of six colleges in the GBCRL tournament. MIT's high men for the day were Boling, 266; Steve Walther '66, 266; George Olah '64, 260; Bridgeman, 259; and Frederick, 258.

Awards given to the four top men in each of the three shooting positions were presented to Boling for 1st place standing, 2nd place prone, and 4th place kneeling; Olah for 2nd place standing; and Walther for 3rd place prone at the League banquet Saturday night. Hamada was given an award for 11th place in New England.

MIT ranked 2nd to NU at the close of GBCRL competition. At the banquet, rifle coach Learner announced the new team captain and manager, Hamada and Bridgeman, succeeding Boling and Olah, who have shot on the varsity team for three years.

W.P.I. victorious

Baseball squad drops two

by John Schwartz

The Tech varsity squad saw their season's record slip to one and six Saturday as they dropped a morning-afternoon home double-header to Worcester Tech by scores of 4-1 and 3-0.

WPI's Tod Wicker fired a no-hitter at the Engineers in the 2nd game, after George Mitshang had allowed Tech just three hits in the opener, one of them a double by left-hander Jack Mazola '66. A single by Mazola and one by thirdbaseman Dave Dunford '64 completed the hapless MIT attack.

Tech fireballer Larry Calof '66 suffered another tough loss in the opener when spotty fielding in the top of the fourth inning led to the four WPI runs, all unearned. Calof struck out six, walked two, and allowed only six hits. Winning hurler Mitshang fanned nine Tech

tially poor, but by the end of the afternoon the stiff headwind had died down to provide good water for the varsity race.

Varsity by 2½ lengths

A high stroking Dartmouth crew jumped out to an early lead in the varsity race, but was overtaken by the Tech crew with about ¼ mile gone. The long, low stroke of the MIT eight then began to tell as coxswain Julian Adams, '64 "called off seats" on the green. Stroke and Captain Mark Barron, '64 held the stroke at a 31 until Baker House (or with about ¾ mile to go), and then the beat gradually rose to a 33 and the gap widened, with Yale falling farther and farther back in third place. Tech continued to move out and sprinted home in 7:24.8, 2½ lengths ahead of Dartmouth.

Headwind lowers stroke

Rowing into a strong quartering headwind forced Sophomore stroke Fred Furtek to lower the racing beat to a 29 at the start of the Junior Varsity race, but once the Tech JV's passed Dartmouth at about the Great Court, their lead was never threatened. The margin of victory was 1½ lengths and the times were MIT 7:36.8, Dartmouth 7:42.8, Yale 7:46.

by Don Bosack

The varsity track team opened its outdoor season last week with two crushing victories. On Tuesday, they swamped Brandeis 103-31, while on Saturday, they rolled over Tufts 100-44.

In the Brandeis meet, Jim Flink '64, Kim Sloat '64, and Rex Ross '66 led the team with two first places apiece. Flink won

batters and issued three bases on balls.

Mazola took the mound in the second game, and struck out six and walked six, but Tech was not able to muster any kind of an offense against Wicker. Two errors and three walks gave MIT its only five baserunners of the game; Wicker added eight strikeouts to his fine performance.

Mazola yielded just five safeties, but one of them was a long home run by Worcester shortstop Bill Goudie, the hitting star of the day with two for three in the first game and three for four in the second, driving in three runs. Tech's lone run of the day was driven in by Mazola.

	1st game:								
WPI	0	0	0	4	0	0	1	R	H
MIT	0	0	0	0	0	0	1	E	2
WPI	0	0	0	0	0	1	1	R	3
MIT	0	0	0	0	0	0	0	E	2



Photo by Stephen Teicher
Captain Don Alusic '64 heads into third base on a hit in the first game of the double header with WPI played at home last Saturday. WPI took both ends of the twinbill 4-1, 3-0.

Heavyweight crews top Columbia



Photo by Stephen Teicher
The MIT varsity heavyweights lead with open water over Columbia in the race rowed last Saturday afternoon on the Harlem River. The heavies won going away as they crossed the finish line in 10:38.4, more than 10 seconds ahead of Columbia for the 2 miles. This Saturday the heavies row against Yale here.

By C. R. Miller

The heavyweight Varsity crews of MIT defeated Columbia on the Harlem River in New York last Saturday bringing their record to two wins and no defeats. With the exception of the first freshman boat, the regatta was a clean sweep for the engineers.

Varsity rows high to win

The 2-mile varsity event started with the Lions and the engineers running neck and neck for the first few strokes of the race. MIT settled to a 32 and Columbia to a 33 as Tech began to pull away into the lead. At the half mile mark, MIT, now possessing a one length lead, was still stroking at 32. At the mile mark, the engineers had opened up a two length lead, though they weren't pulling away from Columbia, now stroking 33.

At about the 1-¼ mile mark, MIT began its 40 stroke sprint from a position 2-½ lengths in front of the Lions. The sprint at 38 strokes per minute, failed to gain the engineers much more of a lead, and they crossed the line 10.3 seconds ahead of Columbia, in a time of 10:38.4.

JV romps by 22 seconds

The second varsity boats of the two schools also battled it out on the 21-mile course, and MIT led the way, except for the start. Tech lost ground during the start as the number 3 man jumped his seat and spent three strokes trying to regain it. The engineers didn't panic, though, and by the half mile mark, they had made up their losses, and were a length ahead. MIT, rowing at 29 strokes per minute, continued to open

their lead for the entire race, except at one point when the boat was almost stopped by a full crab. MIT though they didn't take a sprint, still finished 5 lengths ahead, in a time of 10:38.7.

Third varsity wins

The third varsity raced a Henley distance against the wind and with the tide, a condition which yielded unusually rough water. To spite this, the engineers gained a seat at the start and settled to 31 strokes per minute. With the tide gone, Tech was two lengths ahead, and pulling strongly at 30 strokes per minute. At sprint time, MIT was 2½ lengths ahead, and a 20 stroke sprint made it a three length victory. The time for MIT was 6:31.6.

On Deck

Today, Wednesday, April 22
Baseball (V)—Harvard, Home, 2:30 pm
Golf (F)—Governor Dummer Academy, Away, 1:00 pm
Lacrosse (V)—Massachusetts, Home, 3:00 pm
Lacrosse (F)—Phillips Andover, Home, 3:00 pm
Thursday, April 23
Tennis (V)—Bowdoin, Home, 3:00 pm
Friday, April 24
Baseball (F)—Harvard, Away, 3:00 pm
Golf (V)—Tufts, Wesleyan, Home, 1:00 pm
Tennis (V)—Colby, Home, 3:00 pm
Saturday, April 25
Baseball (V)—Middlebury, Away, 2:00 pm
Heavyweight Crew (V)—Yale, Home
Lightweight Crew (V)—Biglin Cup, Home
Golf (F)—Tabor Academy, Away, 1:00 pm
Lacrosse (V)—Amherst, Away, 2:00 pm
Lacrosse (F)—Winchendon School, Away, 2:00 pm
Sailing (V)—NE ISA Eliminations and BU Trophy, Away
Sailing (F)—Freshman Minor, Away
Tennis (V)—Wesleyan, Home, 2:00 pm
Tennis (F)—Wesleyan Home, 2:00 pm
Outdoor Track (V&F)—Williams, Home, 12:30 pm
Sunday, April 26
Sailing (V)—NEISA Eliminations, Away
Monday, April 27
Golf (V)—BU, Home, 12:30 pm

Sailors take Eastern Championship; Win Owen and Oberg Trophies

By Ken Browning

The MIT Sailing team took the Eastern "Old Guard" Championship (Owen Trophy) in a regatta held at the Coast Guard Academy at New London, Connecticut, last Saturday and Sunday. Tech did not win either the "A" or "B" division, but a consistent performance in both furnished the margin for victory.

Captain Terry Cronburg '66 skipped MIT to 3rd place in the "A" division, behind Kings Point and Coast Guard, while another sophomore, Don Schwanz, took second in the "B" division behind Princeton. Joe Smullen, '66, and Dave Schlosberg, '64, did the crewing for Tech.

In taking this crown away from defending Coast Guard, MIT fin-

ished with 165 points, edging out surprise second-place finisher Princeton by nine points. All the Ivy League schools (including Yale, Brown, Harvard, Columbia, Dartmouth, Cornell, Penn., and Princeton) as well as Army, Navy, Coast Guard, Kings Point (Merchant Marine Academy), and Williams followed in Tech's wake for the weekend.

The sailors kept up their winning ways, taking their fourth trophy in as many tries Monday when they returned to the Charles River for the Oberg Trophy regatta. Schlosberg, Smullen, Cronburg, Ed Shaw, '65, and Mike Johnson, '66, skippered Tech to victory, Cronburg handily winning all four races he was in.

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